



# भारत का राजपत्र

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No. 16] NEW DELHI, SATURDAY, APRIL 21, 1984 (VAISAKHA 1, 1906)

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 (Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

## [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

15th March, 1984

186/Cal/84. Richter Gedeon Vegyeszeti Gyar RT. Novel Thiazolidine Derivatives, a process for their preparation and pharmaceutical compositions containing them.

187/Cal/84. Personal products Company. Freeze Dried Microfibrillar Cellulose.

188/Cal/84. Naba Kumar Bandopadhyay. A safety device for safe running of trains and for giving alarm in case of emergency.

16th March, 1984

189/Cal/84. Ube Industries Ltd. Feeder for pulverized coal.

190/Cal/84. Ube Industries, Ltd. Furnace operated by combustion of pulverised coal.

191/Cal/84. N T E F Gewindeindeln GmbH. Bearing arrangement for guiding a carriage in a straight line along a guide rail.

192/Cal/84. Metallgesellschaft Aktiengesellschaft. Method of processing small batteries.

20th March, 1984

193/Cal/84. Kabushiki Kaisha Meidensha. Vacuum Interrupter.

194/Cal/84. Licentia Patent-Verwaltungs- G.M.B.H. An apparatus for the dynamic blind output compensation and balancing for a in-phase system.

21st March, 1984

195/Cal/84. Biogal Gyorgyszergyar. Plant-growth regulators.

196/Cal/84. Klein Schanzlin & Becker Aktiengesellschaft. Method for producing foundry sand molds and device for carrying out the method.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH 61, WATTAKA ROAD, MADRAS-2.

27th February, 1984

130/Mas/84. T. A. Vijayav. An improved Winemill.

131/Mas/84. Udo Poschinger. A gas container.

132/Mas/84. The Dow Chemical Company. Improved process for the recovery of carbon dioxide from flue gases.

28th February, 1984

133/Mas/84. Nathaniel Ray Baker & Franklin Earl Lynch. A hydrogen, or other material, sorbent composition.

29th February, 1984

134/Mas/84. Dr. Rollan Swanson. Sleavage and hydrogenation of refractory petroleum residue products, such as asphaltenes, resins, and the like.

135/Mas/84. Societe Alsacienne De Construction De Material Textile. Method and Device for eliminating defects produced in fabrics as a result of stoppage of a weaving loom.

1st March, 1984

136/Mas/84. P. V. Hariharan. Straight shot, self insulated automatic plastics "Sprue-Eliminator" in injection molding.

2nd March, 1984

137/Mas/84. Vincrist Electronics. R Chargable Refill".

138/Mas/84. Metal Box p.l.c. Containers.

139/Mas/84. Institut Francais Du Petrole. A process and device for determining the composition of an alcohol-petrol mixture, adapted to the automatic regulation of engines fed with fuel mixtures having a variable alcohol content.

5th March, 1984

140/Mas/84. International Ferrox Company Establishment. Process for thermal insulation of the surface of a molten mass of steel and thermally insulating board used as a cover plate for carrying out said process.

6th March, 1984

141/Mas/84. Mitsubishi Denki Kabushiki Kaisha. Heat Exchanging device with heat exchanging plates.

7th March, 1984

142/Mas/84. Tecumseh Products Company. Hermetic Motor Compressor. (Divisional to Appln. No. 425/C/81).

143/Mas/84. Tecumseh Products Company. Hermetic Motor Compressor. (Divisional to Appln. No. 425/C/81).

8th March, 1984

144/Mas/84. Dobson Park Industries Plc. Mine roof supports. (March 8, 1983).

145/Mas/84. F.C.N. s.r.l. Pharmaceutical compositions having antineoplastic activity.

9th March, 1984

146/Mas/84. Ireco Chemicals. Blasting Compositions containing sodium nitrate.

147/Mas/84. Dynamit Nobel Aktiengesellschaft. Hard paper and process of manufacturing the same. (Divisional to Appln. No. 434/C/81).

148/Mas/84. Kerr-McGEE Chemical Corporation. Titanium ore chlordination process.

149/Mas/84. Kerr-McGEE Chemical Corporation. Process for Production of Titanium Dioxide from Titanium-ferrous Ores.

## ALTERATION OF DATE

152836. (302/Bom/80). Post dated to March 27, 1981.

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Int. Cl. 53 C + 87 E + L.

152831

Int. Cl. A 62 h 17/00.

#### TILLETOY CAR.

Applicant & Inventor : HWANG CHUANG LI, A TAIWAN NATIONAL OF NO. 7 LANE 222, SEC. 1 HSI TUN TAICHUNG CITY, TAIWAN, REPUBLIC OF CHINA.

Application No. 26/Bom/1979 Filed on 24, Jan. 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

7 Claims.

A toy car which moves in a wave like pattern without any power but to a driver's twisting motion comprising in combination: a frame which supports the car, a pair of handle interconnected by a transverse bar serving as a foot support and connected to a front portion of the frame through a pivot bolt a wheeled first axle connected to the rearward portion of said frame, and a wheeled second axle connected to the said pair of handles whereby rotation of said handles assisted by the said foot support rotates said wheeled second axle about said pivot bolt.

(Comp. specn. 7 pages. Drag. 1 sheet.)

Ind. Cl. 77 C+82 A2.

152832.

Int. Cl. C 11 c 3/00.

A PROCESS FOR THE SELECTIVE HYDROGENATION OF UNSATURATED FATTY ACID WITH A METALLIC CATALYST IN THE PRESENCE OF AMMONIA.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION BOMBAY-400 020 MAHARASHTRA INDIA.

Inventor : JAN KUIPER.

Application No. 165/Bom/80 Filed June 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

9 Claims.

A process for the selective hydrogenation of unsaturated fatty acid containing fatty acid moieties with two double bonds and fatty acid moieties with more than two double bonds being selectively hydrogenated to moieties containing

two double bonds in preference to the hydrogenation of moieties containing two double bonds, the process comprising contacting the fatty acid with hydrogen in the presence of a catalytically active metal of group VIII of the periodic system of the elements which, as a promoter, can contain a metal as herein described and has been treated with ammonia, characterised in that as the catalytically active metal palladium, platinum, rhodium or iridium is used that has been treated with dry ammonia, in a molar ratio of ammonia to metal in the catalyst in the range of from 100 : 1 to 500 : 1 and the hydrogenation is carried out at a temperature ranging from 20°C to 100°C.

(Comp. specn. 7 pages. Drags. nil).

Ind. Class : 27 C 83 A.

152833.

Int. Class : C 11 c--3/00.

A PROCESS FOR THE SELECTIVE HYDROGENATION OF UNSATURATED FATTY ACID WITH A METALLIC CATALYST IN THE PRESENCE OF AN AMINE.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : JAN KUIPER.

Application No. 164/Bom/1980 Filed Jun 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

18 Claims.

A process for the selective hydrogenation of unsaturated fatty acid with a metallic catalyst in the presence of an amine which contain fatty acid moieties with two double bonds and fatty acid moieties with more than two double bonds in the presence of a catalytically active metal of group VIII of the periodic Table of the Elements which as promoter can contain a metal as herein described and which has been treated with an amine characterised in that as catalytically active metal pd, pt and/or Rh is used, which has been treated with said amine, defined herein as organic compound, in a molar ratio of the number of nitrogen atoms of the said amine to the catalytically active metal of between 100 : 1 to 5000 : 1, and the hydrogenation is carried out a temperature of —20 to 100°C and at atmospheric pressure or under high pressures in the range of 100 to 2500 kPa.

(Comp. specn. 17 pages; Drgs. Nil).

Int. Cl. 172 D + D 9.

152834.

Int. Cl. B 01 h 1/00.

AN INTERNAL BRAKE ARRANGEMENT FOR BOBBIN HOLDER.

Applicant : SKEKKO INDIA BEARING COMPANY LIMITED, AN INDIAN COMPANY INCORPORATED UNDER THE COMPANIES ACT 1956 AND HAVING ITS REGISTERED OFFICE AT MAHATMA GANDHI MEMORIAL BUILDING, NETAJI SUBHASH ROAD, BOMBAY-400 002, MAHARASHTRA, INDIA.

Inventor : SUNIL KUMAR SANGHI.

Application No. 265/Bom/1980 Filed on Sept. 9, 1980.

Comp. after Prov. left on Dec. 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

2 Claims.

An internal brake arrangement for bobbin holder comprising a disc, having a plurality of diametrically opposite projections, placed on the inner cap integral with rod covering the bearing assembly of the bobbin holder and outer cap having a plurality of ribs on its inner side correspondingly spaced

in accordance with the said projections of the said disc, placed on a stopper, which is fixed on the stud, used for fixing the bobbin holder to the spinning machine; the arrangement being such that the said projections engage the said ribs and stops the rod of the bobbin holder due to friction between dies and inner cap surface instantaneously when the pull of the roving is stopped.

(Prov. specn. 3 pages. Drgs. 2 sheets).

(Comp. specn. 4 pages. Drgs. 2 sheets).

Int. Class : 172 C4.

152835.

Int. Class : D 01 h 3/00.

#### MINIATURE DRAW FRAME.

Applicant : THE TEXTILE AND ALLIED INDUSTRIES RESEARCH ORGANISATION A SOCIETY REGISTERED UNDER THE SOCIETY'S REGISTRATION ACT XXI OF 1860 OF KALA BHAVAN PREMISES BARODA-1, GUJARAT, INDIA.

Inventor : KAILASCHANDRA BALABHI VORA.

Application No. 294/Bom/80 Sept 22, 1980.

Complete after provisional left on Dec. 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

7 Claims.

A miniature draw frame for carrying out test/trial for drawing/doubling purpose in a relatively short period and from a relatively small quantity of fibrous material e.g. natural or man-made fibres of any staple length, compared to the time and quantity required in the case of conventional large dimensioned draw frame used for production purpose characterised by having a relatively small dimensioned creel with a set of two feed rollers two zone drafting rollers with clearers, rollers, draw frame drum and traverse mechanism for the draw frame drum, and further that the said creel-feed rollers drafting rollers and calender rollers are adapted to get their drive from a gear box through universal joints whereby the drafting rollers are capable of being set according to the staple length of the fibres to be processed without disturbing the centre distance of the respective fixed gears of the gear box.

(Prov. specn. 7 pages Drg. 1 sheet).

(Compl. specn. 20 pages. Drgs. 4 sheets).

Ind. Cl : 172 D8.

Int. Cl. D 01 h 1/00.

#### MINIATURE ROVING FRAME.

Applicants : THE TEXTILE AND ALLIED INDUSTRIES RESEARCH ORGANISATION KALA BHAVAN PREMISES BARODA-1, GUJARAT, INDIA.

Inventor : KAILASCHANDRA BALABHI VORA.

Application No. 302/Bom/80 Filed Sept 27 1980.

Post dated to Mar 27, 1981.

Comp. after Prov. left on March 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

9 Claims.

A miniature roving frame for making rovings for test/trial purpose, in a relatively short period and from a small quantity of fibrous material e.g. natural or man made fibres compared to the time and quantity required in the case of conventional large dimensioned roving frame used for production purpose, having small dimensioned drafting system to

produce rovings and small dimensioned bobbin rail with bobbins and flyers to wind the rovings differential motion arrangement being provided to rotate the bobbins and flyers at relative circumferential speed to each other, and builder motion arrangement being provided to simultaneously cause reversal of the upward and downward traverse of the bobbin rail, decrease in the bobbin speed with the increase in diameter of wound rovings around the bobbins, successive shortening of the distance of traverse of the bobbin rail with the progress of winding of the rovings and reduction in the traverse speed of the bobbin rail with the increase in diameter of the wound rovings around the bobbins, all the moving components getting their drive from a single source.

(Compl. specn. 21 pages. Drgs. 4 sheets).

(Prov. specn. 7 pages. Drgs. 2 sheets).

Ind. Class : 76B + 95C.

152837.

Int. Class : F 166—2/18.

#### A CLAMP FOR BOLTS.

Applicant & Inventor : JAIPRAKASH ANANT SATHE, AN INDIAN CITIZEN 1187/25, GHOLE ROAD, PUNE-411004, MAHARASHTRA, INDIA.

Application No. 312/Bom/80 Filed on Oct, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

6 Claims.

A clamp for bolt comprising a casing formed from a square or rectangular shaped hollow box channel section, said casing having respectively one open U-slot on its one side forming re-entrant slot-cum-seat for a bolt and another elongated or U-slot at right angles and opposite to said first U-slot, said first U-slot having a fixed jaw either formed an elongated metal piece having a vertically extending half round screw threaded slot near its middle or a fixed jaw formed from a pair of half round threaded bits welded in a line adjacent to each other resembling B-in shape, and a rotatable eccentric cam having screw threads and an extension lever forming a moveable clamp can be easily slid over said bolt without using said clamp to bite into or release the screw threads on a bolt, and in that one sector of said bolt is gripped between corresponding sector on said cam when said lever is in locked position, and in that when said lever is in unlocked position, said clamp can be easily slid over said bolt without using any spanner or the like to release the bolt.

(Provision Specification 5 pages, Drawings 1 Sheet).

(Complete Specification 8 pages, Drawings 2 Sheets).

Ind. Clas : 87D + E.

152838.

Int. Class : A63F—5/00, 9/00.

#### A DEVICE FOR PLAYING AN INDOOR GAME INVOLVING THE DEALING COMMODITIES.

Applicant & Inventor : RAVFENDRA VINAYAK CHITnis, BOTH INDIAN NATIONALS, OF 6507-4, WESTERIA DR. CHARLOTTE N. C. 28210, UNITED STATES OF AMERICA.

Application No. 349/Bom/80 Filed on Nov. 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

4 Claims.

A device of playing an indoor game involving the acquiring and selling of commodities comprising :

(a) a game board marked with a plurality of regions for commodities;

(b) sets of disks, to be placed randomly on said regions each set directed to and coded for a specific commodity and selected pieces bearing numbers on their bottom faces;

- (c) a Commodity die having indicia on the respective faces for each set of commodities, whereby a roll determines a particular commodity to be bought or sold by a player;
- (d) a plurality of different commodity units corresponding to said disks each unit displaying the face price of that commodity, such units being purchased at such face price by players successively in response to a roll of the commodity die which then indicates the commodity unit to be purchased and the disk selected by the player determining from the number of units he must buy;
- (e) a market price determining device for establishing the market price of each unit, said device comprising a rotatable wheel having a row of face price displaying commodity labels adapted upon rotation to line up with stationary row of numbers, the market price being calculated by multiplying the face price of a commodity by a number adjacent thereto;
- (f) a quantity die having 1 to 6 units marked respectively on its faces;
- (g) a command die having indicia on its faces to indicate buying/selling or impose a tax or to provide financial benefit tax return the commodity die the quantity die and the command die being thrown together by the players successively;
- (h) a plurality of checks transferrable between players, a computation indices showing calculation of arithmetic computations paid or received in the buying and selling transactions, and a quantity of indicia containing members simulating currency.

(Comp. Specn.—12 pages Drgs—4 Sheets).

Ind. Class : 160 C. 152839.

Int. Class : B 60 r 19/02.

#### AN IMPROVED BUMPER FOR VEHICLES.

Applicant & Inventor : KHUSHROO GHADIALI, INDIAN NATIONAL, RESIDENT OF AVA MANSION, 230 TARDEO ROAD, BOMBAY-400 007, STATE OF MAHARASHTRA, INDIA.

Application No 158/Bom/81 Filed on June 6, 1961.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

#### 2 Claims.

An improved bumper for vehicles consisting of the conventional rounded bumper plate fixed to a piston rod, a piston connected to the said piston rod moving in a chamber the said chamber mounted below the radiator; a connection pipe connecting the said chamber to the radiator; a one way valve provided in the said connecting pipe for allowing water to flow only from said radiator to said chamber and a high pressure actuated nozzle provided in the said chamber opposite to the said bumper plate.

(Complete Specification 4 pages, Drawing 1 Sheet).

Ind. Class : 76 B. 152840.

Int. Class : B23O—3/00.

B 25 b—5/00.

#### IMPROVED WORK PIECE OR JOB CLAMPING DEVICE.

Applicant & Inventor : SUNIL RAJARAM GAMBIR C/o. P. J. SALVI, NEWALE CHAWL, NEAR POWER HOUSE, PIMPRI WAGHERF, PUNE 411 017, MAHARASHTRA STATE, INDIA.

Application No. 163/Bom/81 Filed on June 10, 1981.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

#### 1 Claim.

An improved work piece or job clamping device comprising an upper clamping strap having a horizontal slot; a main body having two parallel through holes, one larger than the other in diameter, a recess for accommodating a knurled nut across the larger hole, a 'T' head bolt passing through the smaller hole of the said main body and the upper clamping strap, keeping the 'T' head downward for anchoring into the slots provided in the bed of the machine tools, a coil spring provided over the said 'T' bolt, between the main body and the clamping strap; another bolt of larger diameter than the 'T' bolt passing into the other hole of the main body keeping its head to upwards and engaging with the knurled nut provided in the said recess to raise or lower the said head of the bolt, the head of this bolt is fairly wide and provided with side guides or supports for properly supporting the upper clamping strap in horizontal position; a locking screw provided in the main body to lock the knurled nut in position during machining operation.

(Comp. Specn. 5 Pages. Drawings 2 Sheets).

CLASS : 173 B + F.

152841.

Int. Cl : F 16 f—9/06.

#### AN IMPROVED MONOTUBE HYDRAULIC SHOCK ABSORBER FOR VEHICLES.

Applicant & Inventor : PILOO DHUNJI SHAW SIDHWA, 24, B. HAMAM STREET, BOMBAY-1, MAHARASHTRA, INDIA.

Application No. 79/Bom/1982 Filed Mar. 31 1982.

Appropriate office for application proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

#### 4 Claims.

An improved monotube hydraulic shock absorber comprising a tube or cylinder with one end thereof being closed and forming a working chamber filled with hydraulic oil, a first piston adapted to move within the said working chamber and thus, within the said hydraulic of which imparts resistance to the movement of the said first piston, the said first piston having two valves and being connected to one end of a piston rod, one of the valve operating during compression stroke of the said first piston and the other valve operating during the rebound stroke of the said first piston, characterised in that said working chamber is formed above a second fluid-tight piston, adapted to float on gas or air entrapped between the bottom surface of the said second piston and the closed end of the said tube or cylinder.

(Comp. Specn. 10 pages; Drgs. 2 sheets).

CLASS : 86-B.

152842.

Int. Cl. : A 47 c (1/00 + 3/00 + 17/00).

#### A CHAIR.

Applicant : UNITED TECHNOLOGIES A PARTNERSHIP FIRM, 46/1, CHURCH STREET, BANGALORE—1, KARNATAKA, WHOSE PARTNERS ARE (1) RAM KRISHNAN CHOURHARI, (2) SURINDER CHOURHARI & (3) VERINDER KUMAR CHOURHARI.

Inventor : SURINDER CHOURHARI.

Application No. 131/Mas/81 filed July 13, 1981.

Complete specification left June 22, 1982.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 13 Claims.

A chair comprising a seat member and a back rest member connected and supported to each other by a pair of supporting arms, said seat member and back rest member being carried by a base member which is provided with a pair of brackets between which is pivotally secured a lever element with a slot provided on its one end and a seating washer on its other

end, said slot having rotatably mounted thereon a cam member which is actuated by an actuating arm, the actuation of said cam member being transmitted to impart an upward or downward movement to an auxiliary support member to compress or release a resilient member disposed between its underside and said seating washer, said auxiliary support member having its one end pivotally fixed to said brackets while its other end being connected between a pair of support members whereon said supporting arms are fixed.

(Prov.—4 pages; Com.—8 pages; Drwgs.—1 sheet of size 33.00 cms. x 41.00 cms.)

CLASS 154-G

152843

Int. Cl. B 41 d 7/00 & B 41 m 5/00.

#### DUPLICATING COMPOSITION

Applicant & Inventor : CLOSEPET YUSUFF KHAN, SAMIULLAH KHAN GEM ENGLISH SCHOOL, IIND CROSS, RAHMATHNAGAR, BANGALORE-560 032, KARNATAKA.

Application No. 169/Mas/81 filed September 17, 1981.

Appropriate office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

1 Claim. No drawing.

A semi-solid duplicating composition, the said composition being prepared by admixing 44% to 65% by weight of gelatine, 10 to 15% by weight of water, 1-2% by weight of potassium metabi-sulphate, 45 to 65% by weight of glycerine, heating the said admixture under stirring till a uniform consistency is attained, adding a known preservative and a known dye, cooling the mass and allowing it to set.

(Com.—3 pages).

CLASS 58-C & 86E

152844

Int. Cl. E 06 b 9/00

#### A BLIND

Applicant & Inventor : JOHN BABU, PULLELIL PUTHEN VEEDU, CHETTIKULANGARA P.O., MABELIKARA, KERALA-690 106.

Application No. 181/Mas/81 filed October 3, 1981.

Appropriate office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A blind comprising a frame provided with atleast one spring-loaded roller and a flexible sheet, the first end of the sheet being attached to, and coiled around, the roller, such that whenever the second end of the sheet is partly or fully drawn away from the roller, the sheet partly or fully unrolls characterised by atleast one suction cup provided for the frame and capable of being vacuum fixed to a smooth surface; and a second suction cup attachable, by known means, to the sheet at its second end or at any other desired point or points thereof, for being vacuum-fixed to the said surface to serve as a blind, the sheet re-coiling around the roller under spring-resilience whenever the second suction cup is released.

(Com.—4 pages; Drwg.—1 sheet).

CLASS 132 (C+D)

152845

Int. Cl. H 03 k (1/00+3/00).

#### A STIRRING SYSTEM,

Applicant : TOSHNIWAL INSTRUMENTS MADRAS, 268, KILPAUKGARDEN ROAD, MADRAS-600 010, TAMIL NADU.

Inventors : (1) PRAVIN GORDHANDAS BIHANI,  
(2) RAVI SHANKAR.

Application No. 203/Mas/81 filed November 6, 1981.

Appropriate office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 8 Claims

A stirring system having a pulse generator for producing a series of pulses at frequency determined by a variable resistor like potentiometer, a counter circuit for modulating the pulse width of said pulse generator, a static motor consisting of atleast four sets of coils each wound on a ferromagnetic core, said coils being excited at a predetermined sequency by a logic circuit to create a rotating flat magnetic field, the speed of rotation of said flat magnetic field being dependent on the selection of pulse rate or frequency of said pulse generator, and a servo amplifier which converts the input signal from said logic circuit into power signals and feeds to the coils of said static motor; and a power supply circuit which converts A.C. power to D.C. and supplies it at reduced voltage to the aforementioned components of the stirring system.

(Com.—13 pages; Drwgs.—3 sheets each of size 33.00 cms. by 41.00 cms.).

CLASS 56 (A+D+G)

152846

Int. Cl. B 01 d 3/00 & C 02 b 1/00.

#### A SINGLE STAGE DISTILLER.

Applicant & Inventor : HAMPAPUR NARASIMHA RAVI, OF BHANU SCIENTIFIC INSTRUMENTS COMPANY, C-251, VTH CROSS, INDUSTRIAL ESTATE, PEENYA, BANGALORE-560 058, KARNATAKA.

Application No. 92/Mas/82 filed May 10, 1982.

Complete specification left March 31, 1983.

Appropriate office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 10 Claims

A single stage distiller comprising a distillation vessel made of fused silica or quartz provided with built-in heating means and having an inlet opening to introduce therein a distilland and an exist opening for releasing the distilland vapour into a condensing unit, said condensing unit being provided with an outlet for discharging the distillate.

(Prov.—5 pages; Com.—9 pages; Drwgs.—1 sheet).

CLASS : 32F<sub>5</sub>(b) & 55D<sub>2</sub>

152847

Int. Clas : C01c 69/00.

"A PROCESS FOR THE PREPARATION OF A 2-(2, 2-DIHALOVINYL-3, 3-DIMETHYLCYCLOPROPYL) ETHANAL".

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT LAAN 30, THE HAGUE, THE NETHERLANDS, A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

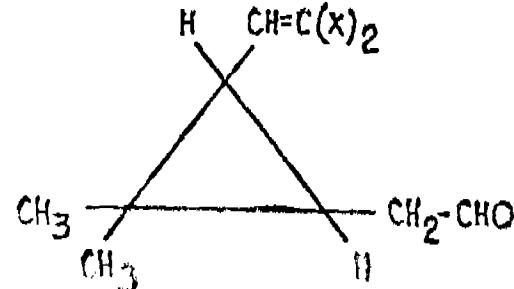
Inventors : JOHANNES VAN BERKEL, HENDRIK CORNELIS KELDERMAN & JOHANNES LEOPOLD MARIE SYRIER.

Application for patent No. 518/Del/79 filed on 17th July, 79. Convention date 19th July, 1978 (30372)/78)/(U.K.).

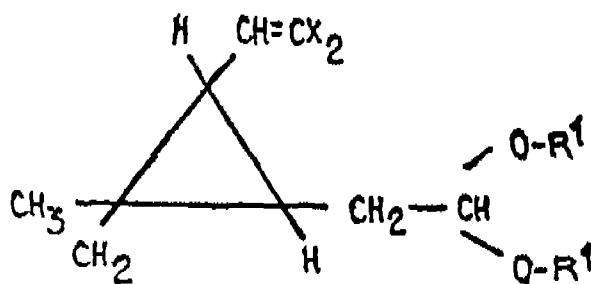
Appropriate office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

(5 claims)

A process for the preparation of a 2-(2, 2-dihalovinyl-3, 3-dimethylcyclopropyl) ethanal of the formula III



wherein X is a halogen atom which comprises hydrolysing compound of formula IV



wherein R<sup>1</sup> is an acetyl group or a methyl group, and X is a halogen atom.

(Complete specification 8 pages. Drawing 1 sheet).

CLASS : 32F<sub>1</sub>(b) & 55D<sub>2</sub> 152848

Int. Class : C07c 69/00.

**A PROCESS FOR THE PREPARATION OF CYCLOPROPANE COMPOUNDS".**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS, A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

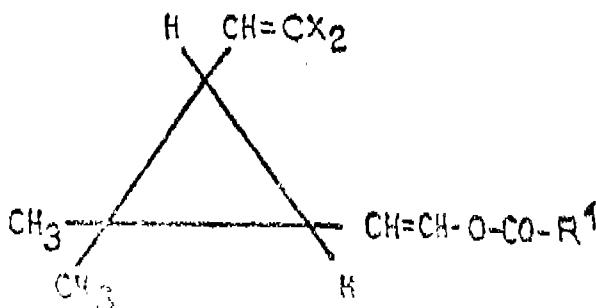
Inventors : JOHANNES VAN BERKEL & HENDRIK CORNELIS KELDERMAN.

Application for patent No. 519/Del/79 filed on 17th July, 1979. Convention date 19th July, 1978 (30337/78) (U.K.).

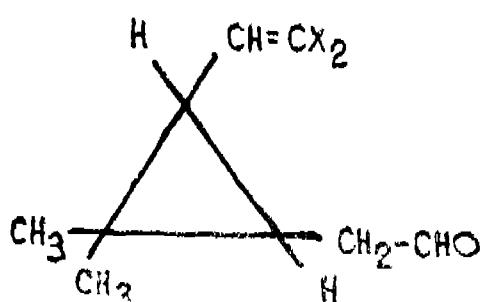
Appropriate office for Opposition Proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**(6 Claims)**

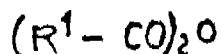
A process for the preparation of the cyclopropane compounds of formula III



wherein R<sup>1</sup> is an alkyl group of from 1 to 5 carbon atoms and X is a halogen atom which comprises reacting 2-(2,2-dihalovinyl)-3, 3-dimethylcyclopropyl-ethanal of formula IV



wherein X is a halogen atom with an anhydride of an alkanic acid of formula V



wherein R<sup>1</sup> is an alkyl group as defined above.

(Complete specification 7 pages. Drawing 1 sheet).

CLASS : 205<sub>2</sub>

152849

Int. Class : B60c 9/18.

**"HEAT AND HUMIDITY RESISTANT STEEL REINFORCED TIRE".**

Applicant : THE GENERAL TIRE & RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE GENERAL STREET, AKRON, OHIO 44329, UNITED STATES OF AMERICA.

Inventors : DONALD GENE CONLEY, OTTO CHARLES ELMER & ROBERT JUNIOR PAYNE.

Application for Patent No. 522/Del/79 filed on 18th July, 1979.

Appropriate office for Opposition Proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**(6 claims)**

In a pneumatic tire containing rubber, filler curing agent, brass-to-rubber bonding agent other than cobalt, cure accelerator, carbon black and zinc oxide, the tire being reinforced at least in part with brass-plated steel cord, wherein improvement comprises the presence of from 0.1 to 3.00 phr of an aromatic triazole as defined herein in the rubber surrounding the steel cord.

(Complete specification 8 pages. Drawing 1 sheet).

CLASS : 143 D 3, 5.

152850

Int. Class : B65b 11/00.

**"AN IMPROVED APPARATUS FOR FORMING AND OVERWRAPPING BATCHES OF PRODUCTS".**

Applicant : G. D. SOCIETA PER AZIONI, an Italian company, of Via Pomponia, 10, 40133 Bologna, Italy.

Inventor : SERAGNOIJ ENZO.

Application for Patent No. 534/Del/79 filed on 24th July, 1979.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**(7 claims)**

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) comprising : a first rotating head for introducing the individual products and rotatable intermittently around its own axis, the head being provided with equidistant radial compartments in which the individual products are accommodated, and the compartments being arranged such that each one adorns, at successive times and during the dwell or halting times of the rotating head, two positions that are angularly spaced apart by 90° a second rotating head for forming the batches of products and the axis of rotation of which is perpendicular to the axis of rotation of the first rotating head, the second head being provided with equidistant radial compartments so dimensioned that each can accommodate a desired batch of products; and a mechanism for wrapping the batches and comprising a head which rotates intermittently around an axis parallel to the axis of rotation of the second rotating head and which is provided with equidistant radial compartments so dimensioned that each can accept a batch of products withdrawn from the second rotating head by ejection and pusher devices located

between the second rotating head and the wrapping mechanism, the apparatus being characterised in that the second rotating head and the wrapping mechanism are supported by a casing resting on a bedplate and being capable of guided sliding movement with respect thereto in a direction normal to the axis of the first rotating head and following a path such that the second rotating head can be carried, at successive times, to a position laterally adjacent the front of the first rotating head in the region of two positions or stations for the transfer of the individual products from the first rotating head to the second rotating head, located at points corresponding to the two dwell or halting positions for each of the 90° angularly spaced compartments in the first rotating head, where with the second rotating head present, at least one pair of pusher devices located adjacent the first rotating head and between same and the second rotating head is operable to move one parallel to the axis of the first rotating head and the other parallel to the axis of the second rotating head to withdraw the individual products from the first rotating head and to transfer them to the second rotating head, the sliding movement of the support casing with respect to the bedplate being variable by a setting device connected to the latter, and the support casing being capable of being stabilised with the second rotating head positioned in the region of the transfer stations by locking means adapted to act on the slide guides of the support casing.

(Complete specification 28 pages. Drawing 4 sheets).

CLASS : 157 D<sub>4</sub>, D<sub>5</sub>, D<sub>6</sub>(c).

152851

Int. Class : E01b 9/00

**"IMPROVEMENTS IN RAIL FASTENING ASSEMBLIES".**

Applicant : TRUE TEMPER RAILWAY APPLIANCES, INC., OF 311 EAST WACKER DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA.

Inventor : GRAHAM MALEOD FEE.

Application for Patent No. 545/Del/79 filed on 30th July, 1979.

Appropriate office for Opposition Proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(20 claims)

A drive-on rail fastening assembly for securing a railway rail, having laterally projecting base flanges to a support therefor, said assembly comprising :

(a) a generally S-shaped torsional spring rail clip including a singular generally linear central leg, a tie loop having an arcuate portion extending from a first end of said central leg, and a rail loop having an arcuate portion extending from the second end of said central leg, said tie loop arcuate portion and said rail loop arcuate portion each having a terminal leg terminating in a free distal end portion; and

(b) a chair positioned adjacent a railway rail having anchoring means for securing said chair to a support for said rail and head means for engagement with said rail clip, wherein said head means includes jaw means for receiving at least a portion of said central leg, for providing a downward restraining force thereon when said clip is driven onto said chair and for positioning the distal portion of said rail loop in restraining engagement with the base flange of said rail, and ramp means for establishing an upwardly directed force on the distal portion of said tie loop when said clip is driven onto said chair;

whereby the driving of said clip onto said chair causes the establishment of torsional forces in said central leg thereby creating rail-holding power in said clip to secure said railway rail to said support therefor.

(Complete specification 20 pages. Drawing 3 sheets).

CLASS : 60 I.

152852.

Int. Class : H01h 47/32, 43/00

**TIME RELAYS.**

Applicant : THE GENERAL ELECTRIC COMPANY LIMITED ELECTRICAL ENGINEERS AND MANUFACTURERS OF 1 STANHOPE GATE, LONDON W1A 1 EH, ENGLAND, A COMPANY INCORPORATED UNDER THE LAWS OF ENGLAND.

Inventor : ROGER GRAHAM FORDHAM.

Application for patent No. 548/Del/79 filed on 31st July, 1979. Convention date 9th August, 1979/32685/78 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A time relay comprising: an electrical device which produces an electrical output having a frequency representative of the value of a parameter monitored by the relay; sampling means connected to the output of said device to produce a first digital quantity representative of said value at a particular time; comparator means connected to said sampling means which uses said first digital quantity to produce an output when said first digital quantity exceeds a predetermined digital quantity; timing means connected to said comparator means which uses the output of the comparator to produce a second digital quantity representative of the time elapsed since the comparator means produced an output; and operating means connected to said sampling means and said timing means which uses said first digital quantity and said second digital quantity to operate the relay when the elapsed time exceeds a value dependent on the value of the monitored parameter represented by said first digital quantity.

(Complete specification 10 pages. Drawing 1 sheet).

CLASS : 129 D.

152853.

Int. Class : B23k 1/04.

**"BRAZING ARTICLE AND METHOD OF MANUFACTURE".**

Applicant : JOHNSON, MATTHEY & CO., LIMITED, A BRITISH COMPANY OF 43, HATTON GARDEN, LONDON, EC1N 8EF, ENGLAND, MANUFACTURERS AND MERCHANTS.

Inventors : MIECZYSLAW HERMAN SLOBODA & JOHN SIDNEY HATSWELL.

Application for patent No. 550/Del/79 filed on 1st August, 1979. Convention date 1st August, 1978/31791/78 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

18 Claims

A brazing article, as herein defined, having on at least part of the surface thereof a coating comprising a brazing flux and an elastomer such as herein described.

(Complete specification 15 pages).

CLASS : 39 P.

152854.

Int. Class : C01g 45/00.

**"A PROCESS FOR THE PREPARATION OF MANGANOUS SULPHATE MONOHYDRATE FROM FERROMANGANESE SLAG, A WASTE PRODUCT OF FERROMANGANESE INDUSTRIES".**

Applicant :—COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SARAT CHANDRA DAS, PRAVAT KUMAR SAHOO & PANJA KANTA RAO.

Application for patent no. 553/Del/79 filed on 4th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims.

A process for the preparation of manganous sulphate monohydrate from ferromanganese slag, a waste product of the ferromanganese industries, comprising leaching the powdered slag with dilute sulphuric acid, diluting the slurry formed with water, centrifuging the diluted slurry to obtain major portion of manganese sulphate formed in the leach liquor, separating further leach liquor extracts containing manganese sulphate by a plurality of operations to admix the centrifuged cake with water to form the slurry and centrifuging to obtain further amounts of leach liquors containing balance amount of manganous sulphate formed, treating the collected leach liquor to separate iron as an impurity therein and separating the manganous sulphate monohydrate from the purified leach liquor by evaporation.

(Complete specification 6 pages).

CLASS : 84C<sub>1</sub>. 152855.

Int. Class : C10I 9/00 and 10/00.

“PROCESS FOR THE PRODUCTION OF PRIMARY IGNITERS FUEL BRIQUETTES FOR THE COMBUSTION OF SOLID FUELS IN DOMESTIC OR LIKE OVENS.”

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT III OF 1860)

Inventors : DAMODAR PRASAD AGRAWAL & MOHAMMED AZIZ MASOOD.

Application for patent no. 554/Del/79 filed on 4th August, 1979.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims.

Process for the production of primary ignition fuel briquettes for the combustion of solid fuels in domestic or like ovens comprising admixing a carrier fuel material a flame supporting fuel, an oxygen donating chemical and a binding material therefor shaping the admixture in desired size and form of briquettes and drying the same for use.

(Complete specification 7 pages).

CLASS : 70C. 152856.

Int. Class : C23b 5/10.

A PROCESS FOR THE PRODUCTION OF IMPROVED CORROSION RESISTANT ZINC COATINGS ON STEEL SUBSTRATES BY ELECTRODEPOSITION.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

2—27 GI/84

Inventors : BALKUNJE ANANTHA SHENOI & MRS. MALATHY PUSHPAVANAM.

Application for patent No. 555/Del/79 filed on 4th August, 1979.

Complete specification left on 27th September, 1980.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims.

A process for the production of improved corrosion resistant zinc coatings on steel substrates by electro-deposition using an aqueous electrolytic bath containing acid/neutral zinc metal salts characterised in that the electrodeposition is carried out in the said bath containing cobalt and/or chromium ions using an electroplating cell known per se.

(Provisional specification 5 pages).

(Complete specification 8 pages).

CLASS : 144 E.3.

152857.

Int. Class : C09d 3/14.

IMPROVED HEAT RESISTANT PAINTS FOR STEEL AND LIKE METAL STRUCTURES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUBBIAH NADAR GURUVIAH & KUMMATTITHIDAL SANTHANAM RAJAGOPALAN.

Application for patent No. 556/Del/79 filed on 4th August, 1979.

Complete specification left on 27th August, 1980.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims.

Process for the preparation of improved heat resistant paints for steel and like metal structures comprising admixing such metal dust/powders as described herein, in butyl titanate as binder, ethyl cellulose and dibutyl phthalate and grinding the admixture to uniform brushable consistency with the addition of toluene.

(Provisional specification 4 pages).

(Complete specification 6 pages).

CLASS : 39 C.

152858.

Int. Class : C01c 1/00

“AN IMPROVED CYCLIC ELECTROCHEMICAL PROCESS FOR THE PRODUCTION OF AMMONIUM PERCHLORATE FROM SODIUM CHLORIDE.”

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : HANADY VENKATAKRISHNA UDUPA, KAPITHALAM CHETLUR NARASIMHAM RASAPPAGOUNDER, PALANISAMY & PAULLICKAL ULAHAN-NAM JOHN.

Application for patent No. 557/Del/79 filed on 4th August, 1979.

Appropriate office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 5 Claims.

An improved cyclic electrochemical process for the production of ammonium perchlorate from sodium chloride characterised in subjecting the sodium chloride to electrolytic oxidation in a cell using lead dioxide as anode, treating the used electrolyte containing sodium perchlorate thus formed by double decomposition with ammonium chloride to form ammonium perchlorate, cooling the reaction product to precipitate ammonium perchlorate formed, boiling the resultant liquor with sodium hydroxide to remove ammonia and reusing the regenerated sodium chloride as cell feed in the electrolytic cell.

(Complete specification 11 pages. Drawing 1 sheet).

GLASS : 32F<sub>2</sub>(b), 32F<sub>1</sub>.

152859

Int. Class : C07d 91/00.

METHOD OF PREPARING 5-(4-PYRIDYL)-6-(4-FLUORO-PHENYL)-2, 3-DIHYDROIMIDAZO [2, 1-b] THIAZOLE.

Applicant : SMITHKLINE CORPORATION, OF 1500 SPRING GARDEN STREET, CITY OF PHILADELPHIA, COMMONWEALTH OF PENNSYLVANIA 19101, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA, ONE OF THE UNITED STATES OF AMERICA.

Inventors : PAUL ELLIOT BENDER & IVAN LANTOS.

Application for Patent No. 559/Del/79 filed on 4th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims.

The method of preparing 5-(4-pyridyl)-6-(4-fluoro-phenyl)-2, 3-dihydroimidazo [2, 1-b] thiazole or a salt or oxide derivative thereof comprising reacting 4-(4-pyridyl)-5-(4-fluorophenyl)-2-mercaptoimidazole with 1, 2-dihalothane each said halo being chloro, bromo or iodo to obtain a mixture of 5-(4-pyridyl)-6-(4-fluoro-phenyl)-2, 3-dihydroimidazo [2, 1-b] thiazole and separating the mixture by fractional crystallization or chromatography optionally followed by formation of an acid addition salt or oxide derivative of the desired isomer in a known manner such as herein described.

(Complete specification 12 pages. Drawing 1 sheet).

CLASS: 32 E.

152860.

Int. Class : C08g 33/20.

A PROCESS FOR THE SYNTHESIS OF ALKYL METHACRYLATE TRIBUTYL TIN METHACRYLATE COPOLYMERS.

Applicant : CHIEF CONTROLLER RESEARCH AND DEVELOPMENT ORGANISATION, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventors : MOHAMMADI TAHERBHAI COMPANY, ASIT BARAN SAMUI, BIKASH CHANDRA CHAKRABORTY & PRAMIL CHANDRA DEB.

Application for patent no. 566/Del/79 filed on 7th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims.

A process for the preparation of alkyl meth-acrylate tributyl tin methacrylate co-polymers which comprises subjecting methacrylic monomers to polymerisation in a known manner followed by hydrolysing the polymer obtained using a hydrolysing agent such as mineral acid; and thereafter subjecting the hydrolysed product thus obtained to a treatment with tributyl tin oxide to obtain the esterified product.

CLASS : 116 G.

152861

Int. Class : B65g 35/00.

IMPROVEMENTS IN MECHANICAL HANDLING APPARATUS FOR RECLAIMING MATERIAL FROM A STOCKPILE.

Applicant : BABCOCK-MOXEY LIMITED, ENGINEERS, A LIMITED LIABILITY COMPANY INCORPORATED UNDER THE LAWS OF THE GREAT BRITAIN, OF BRISTOL ROAD, GLOUCESTER GL1, 5RX, ENGLAND.

Inventor : ERIC REGINALD COX.

Application for patent no. 561/Del/79 filed on 4th August, 1979.

Convention dated 8th August 1978/32608/78(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims.

Mechanical handling apparatus adapted to reclaim material from a stockpile including a support structure or gantry running on rails, a cylindrical drum rotatably mounted on the support structure or gantry wherein a frame is provided on the support structure or gantry which frame carries first and second transfer conveyors the first and second conveyors respectively extend at each side of the drum and are parallel to the drum axis, the frame is rotatably through a limited angular displacement about the drum axis to move the first and second conveyors between an operative position to receive material and a raised position clear of the stockpile, the drum is rotatable about the drum axis in either direction and is provided on an exterior surface with blind scoops or pockets open in opposed directions such that blind scoops or pockets open in one direction serve with rotation of the drum in that one direction to scoop material from a first portion of the stockpile to one side of the drum and upon further rotation of the drum in that same one direction, discharge the material therefrom to the first transfer conveyor held in the operative position at the side of the drum remote from the first portion of the stockpile and the blind scoops or pockets open in the other direction serve with rotation to scoop material from a second portion of the stockpile to the side of the drum remote from the first portion and upon further rotation of the drum in the reverse direction to that one direction discharge material therefrom to the second transfer conveyor when held in the operative position, the first and second transfer conveyors being arranged such that when one conveyor is held in the operative position to receive material from the blind scoops the other conveyor is held in the raised position clear of the stockpile face.

(Complete specification 12 pages. Drawing 3 sheets).

CLASS : 47B & 94C.

152862.

Int. Class : E21c 43/00.

PROCESS FOR THE PREPARATION OF A HOMOGENEOUS COAL-IN-WATER SLURRY ADAPTED TO BE EMPLOYED DIRECTLY IN COAL GASIFICATION AND SLURRY SO PREPARED.

Applicant: RUHRCHEMIE AKTIENGESELLSCHAFT, OF BRUCHSTRASSE 219, OBERHAUSEN 13, FEDERAL REPUBLIC OF GERMANY, A COMPANY INCORPORATED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors: JURGEN LUSCH, HEINRICH HEINEN, BERNHARD LIEDER, VOLKMAR SCHMIDT & WOLFGANG KOLODZEY.

Application for patent no. 562/Del/79 filed on 4th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims.

A process for the preparation of a homogenous coal-in-water slurry adapted to be employed directly in coal gasification which comprises mixing lump coal such as herein described with water, passing the mixture of coal and water into a mill having two grinding tools moving relatively to each other, each tool having projecting grinding elements, the grinding elements of one tool meshing with the grinding elements of the other tool whereby the coal passing between the grinding tools is ground so that the bulk of said coal is reduced to a particle size of from 50 to 500  $\mu\text{m}$ , the particle size range being such that, when represented in a Rosin-Rammler particle size distribution grid (according to DIN 4190) a particle size distribution curve having a slope  $\geq 1$  is obtained the proportion of coal particles having a diameter greater than 0.5 mm being less than 15% by weight based on the weight of the coal thus ground forming with the water a homogenous slurry containing from 50% to 75% by weight of coal based on the weight of the slurry.

(Complete specification 10 pages. Drawing 1 sheet).

CLASS : 55E. 152863.

Int. Class : A61k 27/00.

A PROCESS FOR THE PREPARATION OF A THERAPEUTICALLY ACTIVE ANTI-MALARIA PREPARATION.

Applicant: THE DIRECTOR, CENTRAL COUNCIL FOR RESEARCH IN AYURVEDA AND SIDDHA, "DHARMA BHAVAN" S-10 GREEN PARK EXTN. MARKET, NEW DELHI-110016, INDIA, AN INDIAN NATIONAL.

Inventors: ASIMA CHATTERJEE, GOPALDEV MUKHERJEE, PITABAS BHATTACHARYYA AND SACHINDRA NATH MAJHI.

Application for patent no. 568/Del/79 filed on 7th August, 1979.

Complete Specification left on 28th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims.

A process for preparing a therapeutically active anti-malarial preparation which comprises subjecting to extraction with hot water separately,

- (i) root, stem, leaf, flower and fruit of plant ((*Kirata-tikta*) (*Swertia Chirata*))
- (ii) bark of the stem of tree "septaparni" (*Alstonia Scholaris*) and
- (iii) root of plant "Katuki" (*Picrorhiza Kurrooa*) and
- (iv) powder of cotyledons of the seeds of shrub "Kuber-ukshi" (*Caesalpinia cristata*), evaporating the aqueous extracts to dryness, forming a mixture of the dry extracts in powder form and additives as herein described and thereafter obtaining a thorough blend

of the mix in a conventional manner followed by granulating and drying the granules in a conventional manner and if desired converting the granules into tablet in a conventional manner.

(Provisional Specification 4 pages).

(Complete Specification 11 pages).

CLASS : 126A & 35 RJ.

152864

Int. Class : C21b 7/00.

APPARATUS FOR THE DETECTION OF LEAKAGE OF THE COOLING LIQUID IN BLAST FURNACE NOZZLES.

Applicant: EMPRESA NACIONAL SIDERURGICA, S.A.-(ENSIDES), A SPANISH COMPANY, OF PLAZA DE AMERICA, 10, OVIEDO, SPAIN.

Inventors: ADOFO TORNOS GARCIA, ALEJANDRO FELGUEROSO RUIZ & AURELIA DIAZ FERNANDEZ-RIAGOSO.

Application for patent no. 569/Del/79 filed on 7th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims.

Apparatus for the detection of leakage of the cooling liquid in blast furnace nozzles comprising an outer housing enclosing a fixed, inner double walled housing, the double wall containing mercury and having disposed therein a depending wall of a displaceable hood, one chamber being defined between the outer housing & the exterior of the inner housing and the displaceable hood and another chamber being defined between the inner housing and the interior of the hood and the hood carrying an element of magnetic material disposed within the zone of influence of an inductive circuit the cause variations in the electromagnetic field in said inductive circuit, and means connected to said circuit for converting said variations into a signal to actuate acoustic and/or optical alarm and/or recording devices, means for connecting the two chambers in a liquid cooling circuit of a blast-furnace, whereby variation in the differential pressure of the cooling liquid in said respective chambers and acting on said hood, causes displacement of said hood and thus variation of said electromagnetic field.

(Complete Specification 17 pages. Drawing 7 sheets).

CLASS : 116 A. H.

152865

Int. Class : B66d 1/00.

TRACTION OR HOISTING APPARATUS ACTING ON A CABLE PASSING ON DRIVING PULLEYS.

Applicant: TRACTEL S.A., A FRENCH BODY CORPORATE OF 85-87 AVENUE JEAN LOLIVE, 93170 BAGNOLET, FRANCE.

Inventor: ANDRE DESPLATS.

Application for patent no. 570/Del/79 filed on 7th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims.

A cable traction or hoisting apparatus comprising at least two driving pulleys around which a cable is caused to pass in succession, said driving pulleys being disposed in a common place and being each rigid with a rotating shaft and said

shaft being coupled to together by a mechanism causing in use said two pulleys to rotate with the same peripheral velocity the first pulley around which a load- supporting section of the cable is caused to pass having a non-wedging groove cross-sectional contour, and the other pulley or pulleys having a wedging groove cross-sectional contour.

(Complete Specification 12 pages. Drawing 2 sheets).

CLASS : 130 I.

152866

Int. Class : C22b 15/10, 23/00, 47/00.

**HYDROMETALLURGICAL RECOVERY OF METAL VALUES.**

Applicant : UOP INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventor : JOHN CLARKE STAUTER.

Application for patent no. 572/Del 79 filed on 8th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**8 Claims.**

A hydrometallurgical process for the recovery of metal values from a metal bearing source containing a metal selected from the group consisting of nickel and cobalt which comprises the steps of :

(a) roasting said source in a reducing atmosphere at a temperature in the range of from 550° to 900°C in contact with a roast additive selected from the group consisting of solid sulfur in the concentration of 0.01 to 5% by weight of said source, gaseous sulfur compounds in the concentration of 0.01 to 10% by weight of said source, hydrogen halide in the concentration of 0.01 to 10% by weight of said source, and combinations thereof;

(b) cooling said roasted material in the absence of air until said reduced source obtains a temperature below 95°C and extracting the same below 95°C in the presence of an oxygen-containing gas with a basic agent at a pH sufficiently high to prevent dissolution of high amounts of iron from said source, and

(c) recovering said desired nickel and cobalt metal values by known methods and characterised by the improvement which comprises utilizing ammoniacal ammonium chloride as said basic leaching agent of step (b).

(Complete specification 22 pages).

CLASS : 101 F.

152867

Int. Class E02b 9/08 F03b 7/00.

**DEVICE FOR THE PRODUCTION OF ELECTRICAL ENERGY FROM KINETIC ENERGY INHERENT IN THE WAVE MOVEMENT OF WATER OR HEAVING OF THE SEA.**

Applicant : SVEN ANDERS NÖREN, PROFESSOR, OF KLOVERVÄGEN 3, S-161 36 BROMMA, SWEDEN, A SWEDISH CITIZEN.

Inventor : SVEN ANDERS NOREN,

Application for patent no. 577/Del/79 filed on 10th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**6 Claims.**

Device for the production of electrical energy from kinetic energy inherent in the wave movement of water or heaving of the sea comprising a float unit and a depending energy absorption apparatus connected to the float unit, characterized in that the energy absorption apparatus comprises an immersed piston built into an elongate, substantially vertical acceleration pipe, said pipe comprising a cylinder for said piston and being open at both ends and normally submerged beneath the float unit when in use, said pipe being connected to the float unit and accompanying the float unit in the wave movement of the water, said piston being reciprocable in said pipe in response to hydraulic pressure forces on its upper and lower faces, and being restrained exteriorly of the plant against movement with or relative to said pipe.

(Complete specification 9 pages. Drawing 1 sheet).

CLASS : 132 B1.

152868

Int. Class : B01f 9/00,

B29b 1/04.

**APPARATUS FOR PROCESSING PLASTIC AND POLYMERIC MATERIALS WHICH ARE, OR BECOME, IN THE COURSE OF PROCESSING VISCOS LIQUIDS.**

Applicant : USM CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 426 COLT HIGHWAY, FARMINGTON, 06032, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : PETER HOLD, ZEHEV TADMOR,

Application for patent no. 583/Del/79 filed on 13th August 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims.**

Apparatus for processing plastic and polymeric materials which are, or become, in the course of processing viscous liquids comprising a rotor including a substantially cylindrical surface portion, and a plurality of coaxial annular channels extending radially inwardly from said cylindrical surface portion, said rotor being mounted for rotation in a housing having an annular inner surface coaxial with said rotor and adapted to enclose said cylindrical surface portion so as to form with said channels enclosed annular processing passages in which material is moved circumferentially forward in the direction of rotation in strand or rod-like configuration, said annular processing passages each having an inlet for receiving material, a discharge opening located circumferentially remote from said inlet, and a blocking member located adjacent said discharge opening and circumferentially downstream from said inlet, at least one of said annular processing passages being connected with at least one other of said annular processing passages by a material transfer passage, characterized in that said housing surrounding said rotor is provided with portions substantially symmetrically arranged about the circumference of the housing, each said portion having part of said annular inner surface of said housing and carrying said blocking members, said portions having material transfer passages bridging at least two said annular processing passages said cylindrical surface portion of said rotor serving to seal the sides of said material transfer passages.

(Complete Specification 15 pages. Drawing 2 sheets).

CLASS : 129 K [XXXV] & 20 [XI.I (6)].

152869

Int. Class : B23k 19/00, 11/00 & G 01n 3/00.

**MECHANICAL LOAD CELL FOR RESISTANCE SPOT WELDING MACHINES.**

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventors : VIJAY SHANKARRAO AGWAN, KAL-LURI GOPALA KRISHNA MURTI AND SIVARAMA-KRISHNAN MUTHUKRISHNAN.

Application for patent no. 586/Cal/79 filed on 16th August, 1979.

Complete Specification left on 13th October, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims.

A mechanical load cell for resistance spot welding machine comprising a main fork shaped body in the form of a rectangular piece of bar or plate with a central slot running parallel to its length and extending from one of its sides symmetrically along a part of its length towards the other side, two parallelepipedal blocks secured to the ends of the limbs of the fork shaped body and a dial gauge fixed to one of the said blocks.

(Provisional Specification 4 pages. Drawing 2 sheets).

(Complete Specification 6 pages).

CLASS : 107 G, J & K. 152870

Int. Class : F 02 d—9/00, 21/00.

ENGINE BRAKING SYSTEM OF A GAS COMPRESSION RELIEF TYPE.

Applicant : THE JACOBS MANUFACTURING COMPANY, AT BLOOMFIELD, COUNTRY OF HARTFORD, CONNECTICUT 06002, UNITED STATES OF AMERICA.

Inventors : DENNIS ROBERT CUSTER.

Application No. 1150/Cal/79 filed November 5, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An engine braking system of a gas compression relief type comprising a combustion engine having exhaust valve means and an adjustable hollow body engageable with a first piston for positioning said first piston to open said exhaust valve means at a selected predetermined time after hydraulic pressure fluid is applied to said first piston, characterized by a second piston mounted for reciprocating movement within the body which is hollow between a retracted and an extended position, said second piston being urged into its retracted position against the counter force of a spring by the first piston in the absence of said hydraulic fluid pressure thereto, and check valve means operatively related to the second piston to maintain said second piston in its extended position to prevent return of said first piston for engagement with said hollow body while said hydraulic fluid pressure is applied to said first piston.

(Comp. Specn. 16 pages. Drgs. 2 pages).

CLASS : 172 D. 152871

Int. Class : D 01 g 9/16.

CONTROL APPARATUS FOR A FIBRE FEED DEVICE IN AN OPEN-END SPINNING EQUIPMENT.

Applicants : SCHUBERT & SALZER MASCHINEN-FABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-BERT-STRASSE 84, 8070, INGOLSTADT, GERMANY.

Inventors : 1 HANS POZZO, 2. JOACHIM DAMMING.

Application No. 1333/Cal/79 filed December 21, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Control apparatus for a fibre feed device in an open-end spinning equipment, which comprises a sensor and a switching device controlled by the sensor when the thread tension decreases, and also a control device which controls a fibre feed device, characterized in that the switching device comprises : a switching member which is actuatable when the thread tension decreases; a main switching member, which is connected to and switched on by the switching member for rendering the sensor and the fibre feed device inoperative; and also a switch-off member, for switching off the main switching member, and bringing the sensor and the fibre feed device into operation.

(Comp. Specn. 32 pages. Drgs. 3 sheets).

CLASS : 107 G.

152872

Int. Class : F 02 d 39/00.

AN EXHAUST BRAKE MODULATING CONTROL SYSTEM.

Applicant : CUMMINS ENGINE COMPANY, INC., OF 1000 FIFTH STREET COLUMBUS, INDIANA 47201, UNITED STATES OF AMERICA.

Inventors : 1. DENNIS ARTHUR WILBER, 2. JOHN PAUL SCHNAPP.

Application No. 1355/Cal/79 filed December 28, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A exhaust brake modulating control system for use on an internal combustion engine having an exhaust manifold, a turbo-charger with a housing having a chamber in which a turbine wheel is rotatably mounted, and a source of pressurized fluid; said system comprising a double-acting piston-cylinder assembly having one end of a cylinder adapted to communicate with the exhaust manifold and a second end of the cylinder separated from the said one end by a piston head; an adjustable control valve having an outlet communicating with the cylinder second end and a plurality of inlets selectively connected to the outlet, a first inlet being adapted to be in communication with the source of pressurized fluid and a second inlet being vented to the atmosphere; a hollow section having an inlet adapted to be connected to the exhaust manifold and an outlet adapted to be connected to the turbine wheel chamber; a rotor mounted within said hollow section for rotation between a first selected position wherein substantially unrestricted gas flow occurs between said housing section inlet and outlet and a second selected position wherein gas flow between said inlet and outlet is substantially blocked by said rotor; means operatively connected to said piston head and said rotor wherein rotational movement of said rotor is responsive to the relative movement of said piston head within said cylinder; and pressure regulating means disposed intermediate the source of pressurized fluid and the said first inlet and being preset whereby the pressure of the pressurized fluid entering the said first inlet balances a predetermined exhaust manifold pressure exerted on one side of said piston head causing the latter to assume a relative position within said cylinder and the rotor to assume a position generating a predetermined exhaust braking effect.

(Compl. specn. 11 pages. Drgs. 2 sheets).

Class : 155 C.

152873.

Int. Class : D 04 h 3/00.

NONWOVEN FABRIC AND METHOD FOR PRODUCING THE SAME.

Applicants : CHICOPEE, AT 303 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, U.S.A.

Inventors : BERRY ABRAHAM BROOKS.

Application No. 144/Cal/80 filed February, 7, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A strong, durable nonwoven fabric comprising a layer of polyester or polyolefin or both fibers, said fibers being disposed in a regular repeating pattern of lightly entangled fiber regions of higher area density than the average area density of the layer, and interconnecting fibers extending between the lightly entangled fiber regions and being randomly entangled with each other in said regions, and an adhesive binder.

Compl. Specn. 17 Pages.

Drgs. Nil

Class : 120B, 129G.

152874.

Int. Cl. F 16 n 1/00.

## DEVICE FOR APPLYING SOLID OR SEMISOLID LUBRICANTS TO METALS BEFORE METAL WORKING.

Applicants : VEB SCHWERMASCHINENBAU-KOMBINAT ERNST THALMANN, 3011 MAGDEBURG, POSTFACH 77, GERMAN DEMOCRATIC OF REPUBLIC.

Inventors : 1. HARRI WEINHOLD,  
2. HEINZ-RUDIGER VOGEL,  
3. BERNHARD KURZE,  
4. JOACHIM SCHLEGEL,  
5. DIETER RAUSCHENBACH,  
6. ROLAND HERING,  
7. PETER WERNER,  
8. HEINZ WUNSCH AND  
9. GERHARD BORTFELD.

Application No. 310/Cal/80 filed March, 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

Device for applying solid or semisolid lubricants on metallic material to be mechanically worked, wherein the coating chamber (1) via a lubricant feeder line (2) is connected with a charging and pressure generating device (3), possesses on its peripheral side a heating jacket (5) that at the inlet and outlet side there is one inlet jet (7) and outlet jet (8), the said inlet and outlet jets (7, 8) being assigned heatable or coolable extensions (9) and wherein the pressure chambers (19, 20, 21), formed through an inlet ring (15), working drawing dies (16, 17) and a pressure ring (18), are arranged in a casing consisting of a steel body (12), a clamping sleeve (13) and a pressure nut (14).

Compl. Specn. 10 pages.

Drgs. 1 Sheet.

Class : 163 A.

152875.

Int. Cl. H 02 k 53/00.

## ROTARY APPARATUS.

Applicants & Inventors : BISWANATH KARMAKER OF 276, ROY BAHADUR ROAD, CALCUTTA-700 053, WEST BENGAL, INDIA

Application No. 671/Cal/80 filed 6th June 1980.

Complete specification left 30th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

A rotary apparatus comprising a rotatable shaft journalled at two ends, at least one set of an even number of vessels rigidly mounted on the said shaft and distributed circumferentially through equi-angular distance around the said shaft to define pairs of said vessels in diagonally opposed positions, each said pair of vessels having air-tight connection between each other for liquid flow from one vessel to the other, and being partially filled with liquid of low boiling point but without air in it, and source for maintaining localised temperature differential from cold to hot at the upright top and bottom positions respectively adjacent the said vessels.

Compl. Specn. 16 pages.

Drgs. 3 Sheets.

Provisional Specn. 4 pages.

Class : 39 J.

152876.

Int. Cl. C 01 b 21/06.

## PRODUCTION OF CUBIC BORON NITRIDE FROM POWDERED HEXAGONAL BORON NITRIDE.

Applicants : GENERAL ELECTRIC COMPANY OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : FRANCIS RAYMOND CORRIGAN.

Application No. 508/Cal/80 filed May 2, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A process for making cubic boron nitride from hexagonal boron nitride powder which may optionally include graphite which comprises subjecting impurity-free hexagonal boron nitride to high pressure-high temperature process; at a pressure from 55-80 kilobars; at a temperature of 1600°C to the reconversion temperature; characterized by pre-heat treating the surface of the hexagonal boron nitride powder, which may optionally be admixed with simple crystal cubic boron nitride or a refractory metal powder, by vacuum siring in a non-reactive container; at an initial pressure of from 10<sup>-3</sup> to 10<sup>-10</sup> mm

Hg, and at a temperature of 1400° — 1900°C; for a time of from 5 minutes to 4 hours, the hexagonal boron nitride samples being optionally pre-pressed in the shield metal sleeve before the high pressure-high temperature process before conversion to cubic boron nitride, which cubic boron nitride may if desired be milled into graphite grit.

Compl. Specn. 35 Pages.

Drgs. 2 Sheets.

Class : 84 B.

152877.

Int. Cl. C 10 1 1/02.

## PROCESS AND APPARATUS FOR CONVERTING COAL INTO LIQUID, PREDOMINANTLY HYDROCARBON, PRODUCTS.

Applicants : SASOL ONE (PROPRIETARY) LIMITED, OF KLASIE HAVENGA ROAD, SASOLBURG, ORANGE FREE STATE, REPUBLIC OF SOUTH AFRICA.

Inventors : 1. DR. BEREND JAGÉR, 2. DR. ANDRIES BRINK AND (3) CORNELIS KLEYNJAN.

Application No. 707/Cal/80 filed June 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 36 Claims.

Process for converting coal directly into predominantly liquid products suitable for making hydrocarbon fuel by slurrying the comminuted coal in a pasting oil and digesting the slurried coal under hydrogenative conditions at a temperature ranging from 380 to 500°C and a pressure in the range of 8 MPa (80 bar) to 30 MPa (300 bar), if, and to the extent necessary removing non-liquified solids from the digested slurry, fractionating the digested slurry by distillation to produce a light oil fraction, a middle oil fraction and a heavy or residue fraction, the fraction cutting temperatures (reduced to atmospheric pressure) being 200 ± 50°C between the light oil and middle oil and 400 ± 50°C between the middle oil and the heavy or residue fraction and recycling part of said fractions to substantially or predominantly provide the pasting oil, and wherein one part of the coal is slurried and digested in a first stream (I) wherein the pasting oil comprises heavy or residue fraction, including a heavy or residue fraction derived from coal slurried and digested in a separate and distinct second stream (II), characterized in that the pasting oil in the second stream (II) is substantially composed of recycled middle oil, incorporating 50 to 100% of all the middle oil derived by fractionating the digested slurry of the first stream (I), whilst the pasting oil used for slurrying and digesting the coal of the first stream (I) incorporates 50 to 100% of all the heavy residue fraction derived by fractionating the digested slurry of the second stream (II), light oil derived by fractionating the digested slurry of the second stream (II) being withdrawn as a product or one of the products.

Compl. Specn. 46 Pages.

Drgs. 2 Sheets.

CLASS : 85 R.

152878

Int. Cl. F 27 d 3/00.

## SYSTEM FOR INJECTIONS OF SOLIDS INTO A BLAST FURNACE

Applicants : STEEL AUTHORITY OF INDIA LTD., OF P.O. HINOO, DORANDA, RANCHI-834002, INDIA.

Inventors : 1. DR. SAIBAL KANT GUPTA,  
2. SHRI S. DHARANIPALAN,  
3. SHRI BALBOODH THAKUR, 4. SHRI OM PRAKASH SHARMA AND 5. SHRI AMITAVA GHOSH HAZRA.

Application No. 798/Cal/80 filed July 11, 1980.

Complete specification filed 20th May 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(16 claims)

A system for injection of solids into a blast furnace including means for carrying lime, slag forming material and/or pulverised fuel to a storage bin, a feeding assembly, at least one pair of fluidizer pneumatic chamber pumps, an electronically controlled discharge indicator, a distribution system and a tuyere assembly, said feeding assembly, fluidizer pneumatic chamber pumps, distribution system and tuyere assembly being sequentially arranged and interconnected, said feeding assembly including control means to regulate a uniform passage of feed from said storage bin to said pneumatic chamber pumps, said electronically controlled indicator being arranged to monitor the delivery of feed from said pneumatic chamber pumps to said distribution system which discharges the feed into the blast furnace through said tuyere assembly.

(Compl. specn. 14 pages. Drgs. 2 sheets).

Provisional specn. 5 pages.

CLASS : 172 D.

152879.

Int. Cl. D 01 h 13/00.

## METHOD AND APPARATUS FOR PRODUCING A BOUND THREAD INCORPORATING THEREIN AT LEAST ONE THREAD JOIN

Applicants : SCHUBERT &amp; SAJZER MASCHINENEAR-BRIK AKTIFNGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 807. INGOLSTADT, GERMANY

Inventors : 1. GERHARD EGBERS, 2. KARL BROSCH, 3. PETER ARTZT, 4. HANS ROTTMAYR.

Application No. 841/Cal/80 filed July 23, 1980.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(8 Claims)

Method of producing a bound thread incorporating therein at least one thread join, by means of a hollow spindle from a sliver delivered by a pair of delivery rollers of a drafting train or unit and from a binding thread running off a binding thread bobbin, the bound yarn being pulled out of the hollow spindle and wound on to a bound yarn bobbin, characterized in that, after the hollow spindle and/or the binding thread bobbin has been stopped and after thread draw-off has been interrupted, a joining thread, which is guided through the hollow spindle, is slidably gripped above the pair of delivery rollers, and the joining thread is then inserted into the pin of the pair of delivery rollers and united with the sliver through the hollow spindle and/or the binding thread bobbin being brought into operation and through the joining thread being drawn out of the said hollow spindle, the gripping pressure applied to joining thread having been overcome.

(Compl. specn. 18 pages. Drgs. 3 sheets).

CLASS : 47 B

152880

Int. Cl. C 10 i 3/00.

## AN IMPROVED PROCESS AND APPARATUS FOR PRODUCING PRODUCER GAS.

Applicants : HARISH MEHTA, OF 17 CAMAC STREET, CALCUTTA-17, WEST BENGAL, INDIA.

Inventors : HARISH MEHTA.

Application No. 891/Cal/80 filed August 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(11 claims)

An improved process for producing producer gas by passing a steam of air and steam/hot water through a burning bed of coal, the improvement comprising the steps of passing a stream of air and steam/hot water through a burning bed of coal intermediate the height of the said burning bed of coal, the air passed being less than the stoichiometric amount required to effect complete combustion of the coal, and drawing the gases produced in the coal bed from below the bed by suction.

(Compl. specn. 8 pages. Drgs. 1 sheets).

CLASS : 24 F.

152881.

Int. Cl. F 01 L 13/00.

## ENGINE BRAKING APPARATUS

Applicants : THE JACOBS MANUFACTURING COMPANY, AT 22 EAST DUDLEYTOWN ROAD, BLOOMFIELD, CONNECTICUT 06002.

Inventors : 1. KENNETH HAROLD SICKLER, 2. DONALD JOSEPH MCARTHY, 3. RAYMOND NOEL QUENNEVILLE.

Application No. 1231/Cal/80 filed October, 30, 1980.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(10 claims)

Engine braking apparatus of a gas compression release type including an internal combustion engine having exhaust valve means and pushrod means, hydraulically actuated first piston means for opening said exhaust valve means at a predetermined time, and further piston means actuated by said pushrod means and hydraulically inter-connected with said exhaust valve opening piston means in a high pressure hydraulic fluid circuit, characterized by a bi-stable valve located in said high pressure hydraulic fluid circuit and having at least primary and secondary orifices, and damping means associated with said valve to rapidly damp out vibrations of said valve while it is moving from its closed position defining a high pressure condition, until it comes to rest in an open position defining a low pressure condition said primary and secondary orifices and damping means maximizing the flow through said valve and minimizing the time required to attain said low pressure condition.

(Compl. specn. 20 pages. Drgs. 2 sheets).

CLASS : 68 E1.

152882.

Int. Class : G 05 f 1/00.

## PROTECTION APPARATUS FOR PROTECTING SERIES CONNECTED CAPACITORS

Applicants : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA

Inventors : CHARLES ADRIAN PETERSON.

Application No. 104/Cal/81 filed January 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (5 claims)

Protection apparatus for protecting series connected capacitors which are connected in series with an electrical line, the apparatus being of the type using non-linear resistors connected in parallel with the capacitors and being free of triggerable spark-gap elements for providing overvoltage protection, the apparatus also providing overcurrent protection for the capacitors, the apparatus comprising :

non-linear varistor element means connected in a first circuit branch across the capacitors which need to be protected;

a current transformer with its primary connected in series with said first circuit branch and having a secondary winding connected across a burden impedance;

a step-up potential transformer having a primary winding connected across said burden impedance, said potential transformer having a secondary winding;

a trigger spark gap connected with said secondary winding and set to spark-over at a predetermined voltage level; and spark gap means connected in a second circuit branch across said capacitors to be protected and connected to cooperate with said trigger gap to flash over bypassing said capacitors in the even of overcurrent as sensed by said current transformer.

(Compl. specn. 12 pages. Drgs. 2 sheet).

CLASS : 55 E4, 60 X,d. 152883.

Int. Class: A 61 k 2700, C 07 g 7/00.

## METHOD FOR THE PREPARATION OF INTERFERON INDUCERS.

Applicants : KITASATO KENKYUSHO, OF 9-1, SHIROKANE 5-CHOME, MINATO-KU, TOKYO-TO, JAPAN.

Inventors : 1. YASUHIKO KOJIMA, 2. SEISHI KONNO, 3. TAKASHI HASHOMOTO.

Application No. 144/Cal/81 filed February, 7, 1981.

Convention date : 7th February, 1980 (04156/80) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (19 claims)

A process for the preparation of an interferon inducer, which comprises extracting as herein described the said interferon inducer from a plant of the genus *Carthamus* or a varian thereof capable of producing the said interferon inducer and recovering as herein described the said interferon inducer from the extract thereby obtained.

(Compl. specn. 26 pages. Drgs. 2 sheets)

## OPPOSITION PROCEEDINGS

An opposition has been entered by Director General, Research Designs & Standards Organisation, Govt. of India, Ministry of Railways to the grant of a Patent on application No. 152044 made by Elcktro—Thermit GmbH.

## PATENTS SEALED

150646 150911 151060 151294 151341 151380 151428 151462  
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## AMENDMENT PROCEEDINGS UNDER SECTION 57

## (1)

The amendment proposed by NEDERLANDSE CENTRALE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK in respect of application for Patent No. 148125 as advertised in the Part-III, Section 2 of the Gazette of India dated the 3rd September, 1983 has been allowed.

## (2)

The amendments proposed by Westinghouse Electric Corporation in respect of application for Patent No. 150329 as advertised in Part III, Section 2 of the Gazette of India dated the 22nd October, 1983 have been allowed.

## LIST III

## COMMERCIAL WORKING OF THE PATENTED INVENTION

The following patents in the field of Mechanical & General Engineering Industry are not being worked commercially in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1982, generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of licence for the purpose

S. No.	Patent No.	Date of Patent	Name and address of the patentees	Title of the invention
1	2	3	4	5
1.	134539	8-2-1972	Veb Polygraph Leipzig Kombinat Fur Polygraphische Maschinen Und Ausrustungen, 59, Zweinaundorfer strasse, 705, Leipzig, East Germany.	Method and apparatus for thread sealing together two sheet portions.
2.	134540	8-2-1972	Do.	A thread stitching method and apparatus therefor.
3.	134541	8-2-1972	Do.	Stitching apparatus.
4.	134542	8-2-1972	Do.	Method and apparatus for producing folded and thread sealed sheet.
5.	134587	11-2-1972	Wilhelm Stahlecker, 7341 Reichenbach, West Germany.	Spinning turbine.

1	2	3	4	5
6.	134628	16-2-1972	Westinghouse Brake and Signal Co. Ltd. 82 Yorkway Kings Cross London N1 9AJ England.	Valve means
7.	134662	18-2-1972	Sunkist Growers Inc., 14130 Riverside Drive, Sherman Oaks State of California, U.S.A.	Apparatus for automatically selecting between a plurality of generally spherical objects.
8.	134677	19-2-1972	USS Engineers and Consultants INC 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Apparatus for controlling weight and distribution of a coating on a substrate.
9.	134738	27-8-1970	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Improvements in or relating to servo motors especially for vehical braking systems.
10.	134778	1-3-1972	Nippon Card Clothing Co., 13-1, Shiba- saki, 2-chome, chofu-shi Tokyo, Japan.	Flat arrangement of a fixed type usable for carding engines.
11.	134806	2-3-1972	Franz Plasser Bahnbaumaschinen Indu- striegesellschaft m.b.H., Johannesgasse 3, Vienna 1, Austria.	Improvements relating to mobile railway track levelling and tamping machine.
12.	134831	4-3-1972	David Lincoln Rowland, 8, East, 62nd Street, New York, 10021, U.S.A.	Assemblies of seats and backs usable in furnitures, automobilcs, other transport vehicles.
13.	134885	8-3-1972	Heinrich wigger & Co., Mashinenfabrik 475 Unnd/West f, Morgenstr 39/41 Ger- man Federal Republic.	Chopper (chipping machines) for the crushing particularly of raw materials of small cross section such as wood waste (chips of wood) and similar material.
14.	134889	9-3-1972	Girling Ltd., Kings Road, Tyseley, Bir- mingham 11, England.	Improvements relating to sliding caliper disc-brakes.
15.	134890	9-3-1972	Do.	Improvements in and relating to sliding caliper disc-brakes.
16.	134949	15-3-1972	The Gillette Co., Prudential Tower Build- ing boston State of Massachusetts, U.S.A.	Improvements in or relating to razors.
17.	134950	15-3-1972	Do.	Disposable razor blade unit.
18.	134951	15-3-1972	Do.	Package for razor blade units.
19.	134975	17-3-1972	Wilhelm Stahlecker GmbH, D-7341, Reichenbach Bei Geislingen/Steige West Germany.	Break or open end spinning rotor or turbine.
20.	134991	20-3-1972	Repla International S.A.H., 56 Boulevard Napoleon, Luxemburg, Grand Duchy of Luxemburg.	Method and means for producing on article-catch-ing strip and an article catching strip produced thereby.
21.	135015	21-3-1972	Canon Kabushiki Kaisha, 30-2, 3- chome, Shimomaruko, Ohta-ku Tokyo, Japan.	Method of transferring images developed by a liquid developer in electrophoto- graphic process.
22.	135022	22-3-1972	William Pyrm-Werke KG 519 Stolborg/ Rhein Szwefaler Str. 5-7, Federal Re- public of Germany.	Method of and apparatus for manufac- turing a sliding clasp fastener.
23.	135084	28-3-1972	Automotive Products Co., Tachbrook Road, Leamington Spa, Warwickshire CV 31 3ER England.	Improvements in or relating to friction clutches.
24.	135176	5-4-1972	McNeil Corporation, 96 East Cresier Street, Akron, Summit County Ohio 44311 U.S.A.	Apparatus and method for controlling manufacturing process.
25.	135177	5-4-1972	USS Engineers & Consultants INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method of and apparatus for treating liquid steel.
26.	135186	6-4-1972	Do.	Method of an apparatus for replacing a holder for a pouring tube on a bottom pourvessel.

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27.	135265	13-4-1972	Franz Plässer Bahnbaumaschinen Industriegesellschaft m.b.H. Johannesgasse 3, Vienna-1, Austria.	Improvements relating to mobile machine for treating the bedding ballast of railway tracks.
28.	135321	18-4-1972	F.L. Smidh & Co., A/s 77, Vigerslev Alle, DK-2500 Copenhagen Valby Denmark.	Method of assembling planetary cooler tubes on rotary kilns.
29.	135369	25-5-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Fluid level indicating devices.
30.	135469	18-5-1972	Variable Kinetic Drives Ltd., Rose cottage, Pillory green, Napton, Rugley Warwickshire, London.	Torque converter couplings.
31.	135565	6-9-1972	Combustion Engineering INC., 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	A method of manufacturing pipe bends from cold formed half tori and an apparatus for cold forming torus.
32.	135602	16-5-1972	American Standard INC., 40 West, The Street, New York, New York 10018, U.S.A.	Quick service valve device for fluid pressure brake system.
33.	135620	21-11-1972	Harold George Poole, Aspenden House, Buntingford Hert, Fordshire, England.	Improvements in or relating to towing connections.
34.	135621	3-7-1972	William Prym Werke KG, 519 Stolberg/Rhld Zweifaller Str., 5-7, Federal Republic of Germany.	An apparatus for manufacturing sliding clasp fasteners.
35.	135631	9-10-1972	Robert Bosch G.m.b.H., Postfach 50, 7, Stuttgart 1, West Germany.	Improvements in and relating to a fuel injection pump for internal combustion engine.
36.	135699	18-5-1972	Canon Kabushiki Kaisha, 30-2, 3-Chome, Shlomaruko, Ohta-ku, Japan.	Electrophotographic copying machine.
37.	135701	18-5-1972	Do.	Electrophotographic copying machine.
38.	135712	9-6-1972	Palitex Project Co., Weeserweg 8, 4150 Krefeld, West Germany.	Scraping roller.
39.	135735	17-5-1972	F. L. Smidh & Co., A/s 77, Vigerslev Alle, DK-2500 Copenhagen, Valby Denmark.	Rotary kiln.
40.	135736	21-8-1972	Jervis B. Webb Co., 9000 Alpine Avenue, Detroit, Michigan, 48204, U.S.A.	Conveyor system.
41.	135747	18-7-1972	Hunt & Moscrop Ltd., Apex Works Middleton junction, County of Lancaster, England.	Improvements in textile fabric or paper shrinking machine.
42.	135751	8-8-1972	The Timken Co., 1835 Dueber Avenue, S.W. Canton, Ohio, U.S.A.	Apparatus for rolling strip material.
43.	135762	1-7-1972	Palitex Project Co., G.m.b.H., Weeserweg 8, 415 Krefeld, West Germany.	A device for lifting and stopping a spinning or twisting spindle more especially a double twisting spindle in a specific position of a spindle.
44.	135773	8-9-1972	Wilhelm Stahlecker G.m.b.H., D-7341, Reichenbach Bei, Geislingen/steige West Germany.	Improvements relating to mountings for open end or break spinning machines.
45.	135774	8-9-1972	Do.	Open-end spinning machines.
46.	135822	19-9-1972	Massey Ferguson Services N.V., Abraham de Veerstraat 7A, Curacao, Netherlands, Antilles.	Draft-control linkage tractor.
47.	135836	1-7-1972	Palitex Project Co., G.m.b.H., Weeserweg 8, 415, Krefeld West Germany.	A spinning or twisting machine especially a double thread twisting machine.
48.	135862	20-6-1972	Sandvickens Jernverks Aktiebolag Fack S-81101, Sandvickens 1, Sweden.	Improvements in or relating to cutting of tools.

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49.	135869	27-6-1972	Redox Desenvolvement E Exploracas De Processos Siderurgicas Ltd., Rue Pasteur 543 Cunitiba (Parana), Brazil.	Process and apparatus for the direct product of steel.
50.	135880	4-10-1972	Combustion Engineering INC, 100 Prospect Hill Road, Connecticut, U.S.A.	A mechanical separator.
51.	135926	15-11-1972	Massey-Ferguson Services N.V., Antilles Abraham de Veerstraat 7A Curacao, Netherlands, Antilles.	Draft serving unit for tractor.
52.	136044	11-9-1972	Sandvik Aktiebolag Fack S-81101 Sandvikens 1, Sweden.	Cutting tool assembly.
53.	136062	22-6-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Disc for vehicles.
54.	136090	13-2-1973	Beloit Corporation, 1, St. Lawrence Avenue, Beloit Wisconsin, U.S.A.	Slicelip for a head box of paper machines.
55.	136098	4-7-1972	Johnson & Johnson, 501 George Street, New Brunswick, New Jersey, U.S.A.	Improved dispensing containers.
56.	136126	16-9-1972	Deare & Co., Moline, Illinois, U.S.A.	Self levelling combine.
57.	136137	15-3-1972	The Gillette Co., Prudential Tower Building, Boston, State of Massachusetts, U.S.A.	Disposable razor blade unit.
58.	136138	15-3-1972	Do.	Razor blade unit.
59.	136141	3-11-1972	The Textile & Allied Industries Research Organisation, 1860 Kalabhanav Premises Baroda-390001, Gujarat, India.	Device for doffing or stripping web from doffer of a carding machine.
60.	136142	27-5-1972	The Warner & Swasey Co., University Circle Research Centre, 11000 Cedar Avenue, Cleveland Ohio, 44106, U.S.A.	Machine tool.
61.	136171	27-7-1972	Industrie Pirelli SpA of Pireli Piazza Duca D'aosta No-3, 20100, Milan Italy.	Pneumatic tyre for vehicle wheels.
62.	136186	22-11-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Break shock adjusters.
63.	136205	13-10-1972	Dr. C. Otto & Comp. G.M.B.H., Bochum West Germany.	Vertical regenerator for horizontal coke ovens.
64.	136241	28-6-1972	Battelle Development Corporation, 505 King Avenue, Columbus, Ohio 43201, U.S.A.	Improving flexural strength in fibre containing concrete.
65.	136276	28-7-1972	Prof. Dr. Ing Werner Wenzel etc., 51, A chem Intzester 1, West Germany.	Process and equipment for the reduction of metal ores particularly iron ores.
66.	136287	29-8-1972	Gerard Blum, 12 Rue Pont Proviller La, Tronche Isere, France.	Improvements in the measurement of the area of flat flexible articles.
67.	136302	10-1-1973	F. L. Smidh & Co., A/s 77, Vigerslev Alle, DK-2500, Copenhagen Valby Denmark.	Improvements in or relating to rotary kilns.
68.	136330	15-1-1972	Ethicon INC, Sommerville, New Jersey U.S.A.	Retention suture bridge.
69.	136332	6-12-1972	Carborundum Universal Ltd., 11/12 North Beach Road, Madras-1, India.	Improvements in or relating to scrubbing and mopping pads.
70.	136358	17-6-1972	Armosig, A french Company 22, Avenue de la Jonchere, 78, La Celle-Saint-cloud France.	Method and hot die for extruding tube sections.
71.	136367	29-6-1972	Siemens Aktiengesellschaft, Berlin & Munich, Germany (West).	Method of and apparatus for controlling a synchronous machine.
72.	136382	27-7-1972	Geschafts-Und Insutriebau B. Moeller & Co., Scheuchzerstrasse 64, Zurich, Switzerland.	Frame work for travelling crane.

1	2	3	4	5
73.	136398	13-12-1972	Knoor Bremse G.M.B.H., 80, Moosacherstrasse, 8, Munchen 13, Federal Republic of Germany.	Control valve for pressure air brake installation on railway vehicles.
74.	136438	24-4-1972	Snamprogetti S.p.A. 16, Corso Venezia Milan Italy.	A micro-container and a process for the production thereof.
75.	136454	12-6-1972	James Alexander Mackenzie, 100, Bronson Avenue, Ottawa, Ontario, Canada.	Constructional element.
76.	136486	6-11-1972	Paks-Cramer Company of Post Office 444, Fitchburg, Massachusetts, U.S.A.	Apparatus for and the step of interrupting supply of strand in a method of forming yarn in a yarn forming machine.

## LIST-V

## COMMERCIAL WORKING OF THE PATENTED INVENTION

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1982, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of the Patentees	Title of the invention
1	2	3	4	5
1.	136509	5-1-1973	CATERPILLAR TRACTOR COMPANY OF 100 N.E. Adams, Street, Peoria, Illinois 61602, U.S.A.	Air-Cooled resilient coupling assembly.
2.	136531	26-4-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA OF 2-1, 2-Chome Ote-machi, Chiyoda-ku, Tokyo, Japan.	Furnace.
3.	136540	26-9-1972	Robert Bosch, G.m.b.H., of 7, Stuttgart 1, West Germany (Post Fach-50.)	Improving in or relation to fuel injection pumps for internal combustion engines.
4.	136585	21-11-1972	PALITEX PROJECT COMPANY G.m.b.H. of Weeserweg 8, 415 Krefeld, W. Germany.	A device for braking and stopping double twisting spindle having a belt drive in a predetermined position.
5.	136623	27-5-1972	USS ENGINEERS AND CONSULTANTS, INC. of 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.
6.	136633	11-5-1973	THE GOODYEAR TIRE & RUBBER COMPANY of 1144 East Market Street, Akron, Ohio, U.S.A.	Apparatus for monitoring the condition between two elements in relative motion.
7.	136652	5-7-1972	N. V. HOLLANDSE SIGNAALAPPARTENS of 40 Zindelyie, Howenweg, Hengels (O), The Netherlands.	A method for the manufacture of yarn.
8.	136665	8-8-1972	THE BABCOCK & WILCOX CO. of 161, East 42nd Street, New York-10017, U.S.A.	Pulverized fuel delivery system for a blast furnace.
9.	136684	5-1-1973	CATERPILLAR TRACTOR COMPANY, of 100 N.E. ADAMS Street, Peoria, Illinois 61602, U.S.A.	Track-type vehicles with modular final drive.
10.	136702	26-6-1972	CANON KABUSHIKI KAISHA of 30-2, 3-Chome, Shimbomaruko, Ohta-ku, Tokyo, Japan.	Electrophotographic copying machines.
11.	136710	4-1-1973	Caterpillar Tractor Co. of 100 N.E. Adams Street, Peoria, Illinois, 61602, U.S.A.	Hydraulically powered drive and steering system for track-type vehicle.

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12.	136734	16-3-1973	SCHOTTEL WERFT JORSEF BECKER KG. of Spay/Rhein, F.R.G.	Steerable propeller for water craft.
13.	136744	5-10-1972	CARRINGTON & DEWHURST LTD. of Grove Mill, Eccleston, Near Chorley, Lancashire, England.	Improvements in or relating to fluid jet looms.
14.	136768	27-7-1971	JOHNSON & JOHNSON of 501 George Street, New Brunswick, New Jersey, U.S.A.	Improvements in or relating to synthetic resin binder composition for bonding porous absorbent, fibrous materials.
15.	136782	3-12-1972	U. S. AMANDA LIMITED, of 615, 8th Avenue, South, Seattle, Washington, U.S.A.	Punch Press.
16.	136788	13-9-1972	KAUTEX WERKE REINOLD HAGEN G.m.b.H. of 5300, Bonn, Holzlar 1, West Germany.	Apparatus for producing hollow articles of thermoplastic synthetic resin by a blowing process.
17.	136836	22-9-1972	ELI LILLY & CO. of 740 South Alabama Street, Indianapolis Indiana, U.S.A.	Optical system for capsule inspection.
18.	136856	24-8-1972	USS ENGINEERS AND CONSULTANTS, INC. of 600, Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Mechanism for removal of a roll rock in a continuous casting installation.
19.	136895	4-12-1973	THE TEXTILE & ALLIED INDUSTRIES RESEARCH ORGANISATION of 1860 of Kalabhaiyan Premises, Baroda-390001, Gujarat, India.	Stop motion device for a spinning machine.
20.	136911	8-9-1972	DEERE & COMPANY OF Moline, Illinois, U.S.A.	Hydraulic system and more particularly to the attenuation of pressure pulsation in hydraulic circuits.
21.	136933	15-11-1972	CARBORUNDUM UNIVERSAL LTD. of 11/12 North Beach Road, Madras-1, India.	Improvements in or relating to abrasive discs.
22.	136959	8-5-1973	DR. C. OTTO & COMP. G.m.b.H. of Christstrasse 9, 463, Bochum, West Germany.	Door for horizontal cooking ovens.
23.	136971	2-11-1972	BATTELLE DEVELOPMENT CORPORATION OF 505, King Avenue Columbus, Ohio 43201, U.S.A.	Concrete structural member.
24.	136972	15-2-1973	FICHTEL & SACHS AG. Ernst-sch, Strasse 62, German Federal Republic.	Multishaped transmission hub the braking operation on where of is unaffected by the engagement position of the drive.
25.	136979	26-3-1973	COMMONWEALTH SCIENTIFIC & INDUSTRIAL RESEARCH ORGANIZATION OF LIMESTONE AVENUE CAMPWELL, Australian Capital, Territory Commonwealth of Australia.	Process and apparatus for producing a twisted and plied yarn.
26.	137020	31-1-1973	KABUSHIKI KAISHA YAMADA JUKI OF 32, 4-Ban, Kumano-cho, Nishiomiya City, Hyogo, Prefecture, Japan.	Percussion apparatus.
27.	137025	6-9-1972	VAKUUM VULK HOLDINGS OF 360 Queen Street, Nassau/Barbados.	Retreading and vulcanising process.
28.	137025	21-9-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Apparatus for casting metal objects.
29.	137088	10-9-1972	DRESSER INDUSTRIES INC. OF REPUBLIC NATIONAL BANK BUILDING P. N. BOX 718, Dallas, Texas 75221, U.S.A.	Condition responsive gauge instrument.
30.	137090	28-11-1972	SANDVIK AKTIENGESELLSCHAFT OF FACKS, 81101 Sandviken 1, Sweden.	Improvements in or relating to milling cutters.

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31.	137093	24-1-1973	ERIK SOLBECK Of 342, Vedback Strandvej 2950, Vedback, Denmark.	A machine for producing non-woven nettings.
32.	137120	5-5-1973	AG FR METTLER'S SONS. LTD. of 6415 Arth, Switzerland.	Apparatus for singeing threads.
33.	137146	22-3-1973	N. R. M. CORPORATION OF 47 West Exchange Street, Akron, Ohio 44308, U.S.A.	Tire building machine services.
34.	137166	2-11-1972	ACF INDUSTRIES INC. of 750, Third Avenue, New York-10017, U.S.A.	Means to rotate spherical plug valve.
35.	137174	30-9-1972	MCNEIL-AKRON INC. OF 96 East Croster Street, Akron, Ohio 44311.	A method and press for shaping and curing tyres.
36.	137226	21-10-1972	ACF INDUSTRIES INC. OF 750 Third Avenue, New York-10017, U.S.A.	Fluid flow control valves incorporating fluid pressure actuated sealing members.
37.	137228	12-1-1973	UNIVERSAL OIL PRODUCTS AT 10 UOP PLAZA-Algonquin & Mt. Prospect Roads, Des Plaines U.S.A., Illinois.	Apparatus for simultaneously forming external helical fins and ridges on tube.
38.	137236	28-11-1972	NORTON COMPANY of 1 New Bond Street, Worcester, State of Massachusetts, U.S.A.	An abrasive wheel.
39.	137263	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. ADAMS STREET, Peoria, State of Illinois 61602, U.S.A.	Gear drive mechanism for excavators.
40.	137264	2-1-1973	GIRLING LIMITED OF Kings Road Tyseley, Birmingham 11, England.	Improvements relating to automatic adjuster for shoe-drum brakes.
41.	137294	13-12-1972	KNORR BREMSE G.m.b.H. of 80 Moosacher Strasse 8, Munchen 13, Federal Republic of Germany.	Control valve pressure air brake installations in railway vehicles.
42.	137298	27-10-1972	SAF-GARD SYSTEMS, INC of 100 W Long Lake Road, Suite 210 Bloomfield, Hills Michigan.	A valve and closure device for use in conjunction with pressurized fluid circuit.
43.	137310	9-1-1973	GIRLING LIMITED of Kings Road, Tyseley, Birmingham, 11, England.	Tandem master cylinder for hydraulic braking systems.
44.	137324	30-3-1973	PREROVSKÉ STROJIRNY NARODNÍ PODNIK of Prerov Czechoslovakia.	Arrangement for heat-treating of lump and loose material.
45.	137327	10-8-1973	DEERE & COMPANY, of moline, Illinois, U.S.A.	Radiator for liquid cooled internal combustion engines particularly for agricultural machines.
46.	137384	7-5-1973	CARL HURTH MASCHINEN UND ZAHNRADFABRIK of 15, Holzstrasse, 800, Munchen, F.R.G.	Friction clutch especially for gear transmission.
47.	137426	9-11-1972	BATTELLE DEVELOPMENT CORPORATION of 505 King Avenue, Columbus, Ohio 43201, U.S.A.	A method of making reinforced concrete structure or body and structures so made.
48.	137445	27-11-1972	GORDON SMISER LACKY of 529 West Fourth Street, Es Condido, California, U.S.A.	A ball point cartridge assembly.
49.	137488	5-1-1973	CATERPILLAR TRACTOR & COMPANY of 100 N.E. Adams Street, Peoria Illinois 61602, U.S.A.	Hydraulic circuitry for an excavator.
50.	137489	5-1-1973	Do.	Swing transmission for excavators.
51.	137511	12-7-1973	FRANZ PLASSER BAHNBAU-MASCHINEN - INDUSTRIE - NGESELLSCHAFT, m.b.H. of Johannesgasse 3, Vienna-1, Australia.	A mobile arrangement for determining the cross-level and condition of a railway track.

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52.	137544	11-4-1973	SOCIETE NATIONALE DES POURDRES ET EXPLOSIFS, of 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Improvements in or relating to tool-holders.
53.	137552	27-12-1972	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New York 10017, U.S.A.	A device capable of surface injection of gas in the form of small discrete bubbles in the mass of molten metals in an enclosure.
54.	137554	14-9-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	Double twisting spindle with a twisting arm swivellable in a vertical direction.
55.	137559	23-3-1973	CATERPILLAR TRACTOR CO. of 100 N.E. Adams Street, City of Peoria, State of Illinois 61602, U.S.A.	Brake control system.
56.	137617	15-11-1972	DAINICHI NIPPON CABLES CO. Etc. of No. 8, Nishino-cho, Higashi, Mukaijima, Amagasaki-shi, Hyogo-ken, Japan.	Method of multilayered fabricated articles.
57.	137642	24-3-1973	THE GOODYEAR TIRE & RUBBER COMPANY of 1144 East Market Street, Akron, Ohio, U.S.A.	Improvements in and relating to hose coupling members.
58.	137661	28-12-1972	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIESELLSCHAFT m.b.H of Johannesgasse 3, Vienna 1, Austria.	An apparatus for laterally aligning a railway track especially around a curve by means of a guide beam.
59.	137663	29-12-1973	USS ENGINEERS & CONSULTANTS of 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Curve roll rack for a continuous casting apparatus.
60.	137702	16-2-1973	XAVER LIPP, of D-7091 Tannhausen Kreis Aalen German, Federal Republic.	Improvements in and relating to apparatus for and a method of joining the edges of two sheet portions together.
61.	137710	6-8-1973	DEERE & COMPANY of Moline, Illinois, U.S.A.	Rear-axle support for automatic equipment or machines particularly harvester, threshers.
62.	137753	16-10-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	Double twisting spindle.
63.	137786	7-7-1973	R. A. LISTER AND COMPANY LIMITED of Victoria Iron Works, Long Street, Dursley Gloucestershire, England.	Lubricating pump.
64.	137819	22-6-1973	ETHICON INC. of Sommerville New Jersey, U.S.A.	A surgical suture.
65.	137838	16-10-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	A device for stopping and locking carriage for a servicing device for a twisting machine spooling machine, or the like.
66.	137844	3-1-1973	SULZER BROTHERS LTD. of Winterthur Switzerland.	Steam-generating apparatus.
67.	137855	5-1-1973	CATERPILLAR TRACTOR CO. of 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.	A mounting assembly for slidably supporting a track idler.
68.	137878	15-6-1974	FEDERAL-MOGUL CORPORATION of 26555 Northwestern Highway, Southfield, Michigan 48075, U.S.A.	A bearing assembly.
69.	137896	10-8-1973	DEERE & COMPANY of Moline, Illinois, U.S.A.	Device for attaching and clamping harvesting machines particularly of harvesting or corn-collecting accessory on the inclined conveyor of a harvester, thresher.
70.	137902	19-1-1973	WHITE WELDING AND MFG. INC. of 7640-60th Avenue, Kenosha, State of Wisconsin 53141, U.S.A.	Rotary bar guide assembly for rotary bar door locking mechanism.

1	2	3	4	5
71.	137934	27-9-1973	BUREAU BBR LTD. of Riesbachstrasse 57, Zurich, Switzerland.	Apparatus for anchoring wires or stranded wires.
72.	139745	17-2-1973	ERNEST POLLARD of Bank House, Harden Bingley, Yorkshire, England.	Improvements in or relating to drive belting and endless drive belts made therefrom.
73.	137969	14-6-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	A double twisting machine having a hand knitter.
74.	137983	18-7-1973	SEAMAN CORPORATION, of R.D.I. Millersburg, in the State of Ohio, United States of America.	Rigid frame tension fabric structure.
75.	137996	28-3-1973	BURROUGHS CORPORATION of Second Avenue of Burroughs, Detroit, Michigan 48232, U.S.A.	Device for singulating or feeding documents one-at-a time from a stock.

## MECHANICAL AND GENERAL ENGG. LIST V

## COMMERCIAL WORKING OF THE PATENTED INVENTIONS

The following Patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970, in respect of calendar year 1982, generally on account of want of requests for licences to work the Patented Inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and Address of the Patentee	Title of the Invention
1	2	3	4	5
1.	137998	10-11-1972	SANDVIKAK TIEBOLAG OF FACK S-811 01 Sandviken-1, Sweden.	Cutting elements for cutting tools & a method of forming the same.
2.	138006	20-2-1973	UNIVERSAL OIL PRODUCTS COMPANY of Ten Up Plaza-Algonquin and Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Internally ridged heat transfer tube and method of designing for optimum.
3.	138025	22-1-1974	IMPERIAL CHEMICAL INDUSTRIES LTD., of Imperial Chemical House, Mill Bank, London, S. W. 1, England.	Explosive fuse-cord.
4.	138056	8-8-1973	DEERE & COMPANY, of Moline Illinois, U.S.A.	Corn tank for harvest thresher.
5.	138072	16-10-1973	PALITEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	Device and method for use in positioning of a spindle rotor of a spinning or twisting spindle especially a double twist.
6.	138078	17-7-1973	C. A. NORGREN LIMITED, of Campden Road Shipston-on-stour Warwickshire, England.	Means for coupling fluid control components in fluid lines.
7.	138088	28-11-1973	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIESEGESELLSCHAFT m.b.H. of Johannesgasse 3, Vienna 1, Austria.	A mobile silo truckle railway wagon and the like.
8.	138098	7-8-1973	THE CROSS COMPANY of 17801, Fourteen Mile Road, Fraser, Michigan, U.S.A.	Test stand for vehicle engines.
9.	138114	19-7-1973	SILO VER FAHRENS AG. of CH. 6301, Zng/Schweiz, Hof strasse 1, Eng land.	Apparatus for the production of a tube.

1	2	3	4	5
10.	138115	3-11-1973	ISHIKAWAJIMA-HARIMA JUKO-GYO KABUSHIKI KAISHA, of No. 2-1, 2-Chome, Ote-Machi-chiyoda-ku, Tokyo-to, Japan.	Process and apparatus for making cement clinker by burning raw materials.
11.	138190	20-12-1973	ETABLISSEMENT SALGAD of Vaduz, Liechtenstein.	Explosive projectiles.
12.	138195	11-1-1974	WESTINGHOUSE AIR BRAKE COMPANY OF PITTSBURG, State of Pennsylvania, U.S.A.	Blending valve device for combining fluid pressure and dynamic brakes.
13.	138221	11-1-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD. of 3 John Street, London WC 1N, England.	Brake cylinder release valve apparatus.
14.	138226	31-1-1973	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process and device for wet treatment or impregnation and drying of textile material.
15.	138249	10-7-1973	FERRANTI LIMITED of Hollinwood, Lancashire, England.	An inertial guidance system for aircraft.
16.	138260	1-3-1973	DUNLOP LIMITED of Dunlop House, Ryder Street St. Jame's London S.W. 1, England.	Method of making elongated articles of polyolefin material.
17.	138269	9-1-1974	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIESELSCHAFT m. b.H. of Johannesgasse 3, Vienna 1, Austria.	Apparatus for tamping and levelling a railway track.
18.	138285	22-9-1973	VYZKUMNY UTSAV BAVLVARSKY of Usti Nad Orlici, Czechoslovakia.	Method of and apparatus for stopping an open-end-end spinning machine.
19.	138289	13-6-1973	TOKYO JUKI KOGYO KABUSHIKI KAISHA of 8-2-1, Kokuryo-Machi, Chofu-shi Tokyo, Japan.	Improvements in or relating to a typing machine for selectively typing on a sheet, a large member of characters.
20.	138321	16-4-1974	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	Fluid-Pressure brake system.
21.	138325	12-11-1973	BURROUGHS CORPORATION, of Burroughs Place, Detroit, Michigan, 48232, U.S.A.	Firm ware and method of manufacturing the same.
22.	138341	14-8-1973	Do.	Improved incremented feed device for advancing paper tape record cards and linked ribbon in a printer.
23.	138344	29-11-1973	NIPPON HOSSO KYOKAI of No. 2-1, 2-Chome, Jinman, Shibuya-ku, Tokyo, Japan.	A carrier converting equipment.
24.	138353	5-7-1973	AMPLIFORM PTY LIMITED, COMALCO (J&S) PTY LTD. of 95, Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Method and apparatus for slotting strip material.
25.	138356	6-4-1973	PERSONAL PRODUCTS COMPANY, of Milltown, New Jersey, U.S.A.	Absorbent dressing.
26.	138360	17-4-1974	F. L. SMIDTH & CO. A/S. of 77 Viger-slev, Alle Copenhagen-valby, Denmark.	Improvements in plants for burning granular or pulverous material.
27.	138433	16-8-1973	BURROUGHS CORPORATION, of Burroughs Place, Detroit, Michigan 48232, U.S.A.	A system for accessing a desired record of sequential file in a storage medium.
28.	138492	26-6-1973	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, F.R.G.	Process for fixing prints with reactive dyestuffs on textile materials of native or regenerated cellulose & mixture thereof with synthetic fibres.
29.	138458	8-8-1973	BURROUGHS CORPORATION, of Burroughs Place, Detroit, Michigan 48232, U.S.A.	Apparatus for cooled binary data retrieval.

1	2	3	4	5
30.	138497	15-5-1973	ETHICON INC. of Sommer Ville, New Jersey, U.S.A.	A swaged needle-suture combination
31.	138541	19-4-1973	BURROUGHS CORPORATION, of Second Avenue, Detroit Michigan 48232, U.S.A.	Device for aiding the stacking of documents.
32.	138565	1-5-1974	COMBUSTION ENGINEERING INC. of 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	Metal working apparatus.
33.	138585	22-3-1973	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	Improvements in brake adjusters.
34.	138595	9-5-1972	FRANZ PLASSER BAHNBAUMAS-CINEN INDUSTRIEGESE-ELLSCHAFT m.b.H. of Johannesgasse 3, Vienna 1, Austria.	Improvements relating to mobile machine for distributing and profiling the bedding ballast of a railway track.
35.	138598	28-11-1973	QANTIX CORPORATION of 130 Main Street Flemington, New Jersey, U.S.A.	Front projection screen made from a transparent material.
36.	138639	22-5-1973	SOCIETE NATIONALE DES POURDRES ET EXPLOSIFS of 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Apparatus for machining the inside of large cylindrical bodies.
37.	138653	15-12-1973	THE WARNER & SWASEY CO. of University Circle Research Centre, 11000 Cedar Avenue Cleveland, Ohio 44106, U.S.A.	A machine tool operating on a work piece.
38.	138671	11-6-1973	SKF KUGELLAGERFABRIKEN GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, of 8720 Schweinfurt 2/Deutschland Ernst-Sachastrasse 2-8, Federal Republic of Germany.	Bearing for spinning and twisting spindle.
39.	138681	19-11-1973	CATERPILLAR TRACTOR COMPANY OF 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.	Flat track shoe with tapered end ribs.
40.	138720	8-8-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE Detroit, 4 Michigan, 8232, U.S.A.	Apparatus for regulating input/output traffic of a data processing system.
41.	138746	12-2-1973	ONODO CEMENT COMPANY LTD. of 6276, Oazo, Canada, Onoda-shi Yamaguchi-ken, Japan.	Apparatus for heating and calcining of powder and/or pulverized materials.
42.	138763	11-9-1973	CHICAGO PNEUMATIC TOOL COMPANY of 6 East 44th Street, New York, State of New York 10017, U.S.A.	Stall torque air shut off control for pneumatic nut runners.
43.	138767	4-4-1974	FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, of Aendorfer Strasse 103, D-43, Essen, F.R.G.	Floating body of metal and a process for the manufacture thereof.
44.	138774	1-10-1973	INDIAN EXPLOSIFS LIMITED, of ICI HOUSE, 34, Chowringhee Road, Calcutta-16, West Bengal, India.	Apparatus for the transportation and bulk delivery of plant manufactured slurry blasting agents.
45.	138775	12-10-1973	DEERE & COMPANY, of Moline, Illinois, U.S.A.	An agricultural machine having an engine enclosure and including means filtering the engine, the cooling air.
46.	138777	3-6-1974	KUMANDUR SRINIVASIYENGAR RANGASAMI Etc. of Rourkela 8, Orissa State, India.	Improvements in or relating to double layered braced domes.
47.	138802	3-3-1973	JACQUES HENRY MERCIER of 49 rue de Naples, Paris (8 eme), France.	Improvements in or relating to a pressure vessel.

1	2	3	4	5
48.	138820	14-1-1974	G. D. SOCIETA PER AZIONI OF VIA Pomponia 110, Bologna, Italy.	Device for coordinating and feeding separately objects particularly sweets similar to a wrapping machine.
49.	138842	12-6-1973	EMHART (U. K.) LTD., of Crompton Road, Wheatley, Doncaster, Yorkshire, England.	Valve block.
50.	138897	2-2-1973	SAINT-GOBAIN INDUSTRIES Of 62 Boulevard Victor-Hugo, Neuilly-sur-Seine France.	A composite constructional element for acoustic insulation and a product including the element.
51.	138915	24-10-1973	BURROUGHS CORPORATION OF BURROUGHS PLACE Detroit, Michigan 48232, U.S.A.	Card feeding apparatus.
52.	138918	14-5-1973	SCHUBERT & SALZER MASCHINEN FABRIK AG of 8070, Ingolstadt, Friedrich-Ebert-Str. Bc 84, West Germany.	A spinning machine.
53.	138926	12-3-1973	JACQUES HENRY MERCIER, of 49 rue, de Naples, Paris (8 eme), France.	Pressure vessel.
54.	138945	6-6-1973	SAINT-GOBAIN INDUSTRIES, of 62 Boulevard, Victor Hugo, 92209, Neuilly Sur Seine, France.	Glass sheet assembly.
55.	138948	26-2-1974	SIEMENS AKTIENGESELLSCHAFT, of Berlin & Munich, West, Germany.	Screw tightenable connective device.
56.	138953	13-6-1973	CANADIAN JESUIT MISSIONS of 833 Broadview Avenue, Toronto, Ontario, Canada M4K 2P9.	Internal combustion engine using hydrogen as a fuel.
57.	138974	27-6-1973	PALTEX PROJECT COMPANY GmbH, of Weeserweg 8, 415 Krefeld, West Germany.	Section means especially for use on spinning twisting or winding machine.
58.	138992	24-5-1974	WILSTERWALDER EISENWERK GERHARD K.G. of 5241 Weitesfeld/Sieg, Federal Republic of Germany.	Fluid tight transport container for flowable goods.
59.	139002	7-8-1973	THE CROSS COMPANY, of 17801, Fourteen mile Road, Fraser, Michigan, 48026.	Test stand for vehicle engines.
60.	139042	23-5-1973	ROY JOSEPH WILKERT C/o. General Films Inc., Covington, Ohio, U.S.A.	Filling and sealing system.
61.	139073	1-5-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. of Carel van Bylandlaan 30, The Hague, The Netherlands.	An atomiser and a process for the partial combustion of fuel using the atomiser.
62.	139089	31-8-1973	SANDVIK AKTIEBOLAG OF FACK 81101, Sandviken 1, Sweden.	Cutting insert and cutting tool.
63.	139094	17-7-1974	GIRLING LIMITED of Kings Road, Tysley, Birmingham 11, England.	Improvements in disc-brakes.
64.	139113	16-8-1973	BURROUGHS CORPORATION, of Burroughs Place, Detroit, Michigan, 48232, U.S.A.	Multi processing system having means for dynamic redesignation of unit functions.
65.	139150	11-7-1973	MCNETL-AKRON INC. of 96 East Crosier Street, Akron, Summit, County, Ohio, 44311, U.S.A.	Apparatus for holding an uncurved pneumatic tire.
66.	139151	25-9-1973	FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIESESELLSCHAFT m.b.H. Johannesgasse 3, Vienna 1-Australia.	A device for correcting gases of railway track.
67.	139189	18-5-1973	JSHIKAWAJIMA-HARIMA JUKO-SYO KABUSHIKI KAISHA of No. 2-1, 2-Chome, Ote-Machi, Chiyoda-ku, Tokyo-to, Japan.	Apparatus for burning materials of cement and the like.

1	2	3	4	5
68.	139219	8-10-1973	THE WARNER & SWASEY CO. OF UNIVERSITY CIRCLE, RESEARCH CENTRE H, 11000 Cedar Avenue Cleveland, Ohio 44106, U.S.A.	Machine tool with tail stock.
69.	139220	18-10-1973	BURROUGHS CORPORATION OF Burroughs Place, Detroit, Michigan 48232, U.S.A.	Print train, a printing mechanism incorporating said print train and printing block for use therein.
70.	139306	25-9-1974	KAUTEX WERKE REINOLD HAGEN GmbH of 5300, Bonn-Halzar 1, F.R.G.	Apparatus for the production of hollow articles of thermoplastics materials by blowing process.
71.	139350	2-3-1974	MESSIER HISPANO S. A. PARIS, France of 15 Avenue, Eylan 75116 Paris, France.	Landing gear (under-carriage) and fuselage set with wheels drawn.
72.	139356	17-9-1973	JOHNSON & JOHNSON of 501, George Street, New Brunswick, New Jersey.	Extrusion process for pressure sensitive adhesive sheets and tapes.
73.	139363	28-2-1974	RCA CORPORATION of 30 Rockefeller Plaza, New York, New York-10020, U.S.A.	Optical system.
74.	139370	9-8-1973	E. I. DU PONT DE NEMOURS & CO. OF WILMINGTON DELWARE U.S.A.	Improvements in or relating to compartmented package and process for forming such package.
75.	139374	26-6-1974	GIRLING LIMITED of Kings Road, Tyseley, Birmingham 11, England.	A control valve assembly for a vehicle and dual circuit braking system.

## LIST NO. VI

## COMMERCIAL WORKING OF THE PATENTED INVENTIONS

The following patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the patentees, in the statements filed by them under Section 146 (2) of the Patents Act, 1970 in respect of calender year 1982, generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of licence for the purpose.

S. No.	Patent No.	Date of Patent	Name & address of the patentees	Title of the invention
1	2	3	4	5
1.	139442	31-5-1973	Micro Mineral Holding S. A., 14, Rue Aldringen in the Grand Duchy of Luxembourg.	Process for producing light weight concrete units.
2.	139450	28-2-1973	C. A. Norgren Co., 5400 South Delaware Street, Littleton Colorado 80120, U.S.A.	Coupling unit for fluid control components and an assembly of a fluid control components.
3.	139476	31-8-1973	Docre & Co., Moline, Illinois, U.S.A.	Crop harvesting machine.
4.	139486	3-4-1973	Dresser Investments N. V., Willemstad, Curacao, Antilles, The Netherlands.	Variable venturi apparatus for mixing and modulating liquid fuel and intake air for internal combustion engine.
5.	139488	17-4-1973	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Improvements in and relating to servo-boosters for vehicle brake system.
6.	139498	26-6-1974	Simon Cravens Ltd., Cheadle Heath, Stockport Cheshire, England.	A device for facilitating the discharge of solid particulate material from hopper.
7.	139515	18-5-1974	Societe D' Etudes De Machines Thermiques, 2 Quai de Seine 93202, Saint Denis, France.	A device for cleaning an exhaust gas driven power turbine of a superheating set of a heat engine.

1	2	3	4	5
8.	139539	10-8-1973	Ole Bendt Rasmussen 14, Anemonevij, Gentofte, Denmark and Beghin Say of 59239 Thumeries, France.	Net and method of producing same.
9.	139548	5-10-1974	Palitex Project Co., Weeserweg 8, 415 Krefeld, West Germany.	Antiballooning device for twisting machines.
10.	139562	11-1-1973	International Basic Economy Corporation, 1271, Avenue of the Americas, New York, New York, U.S.A.	Method and apparatus for drying and compacting of a material flowing through a conduit.
11.	139602	4-6-1974	USS Engineers & Consultants INC 600 Grant Street, Pittsburgh State of Pennsylvania, U.S.A.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
12.	139605	14-10-1974	Palitex Project Co. GmbH Weeserweg 8, 415 Krefeld, West Germany.	A double twisting machine with a knotting device.
13.	139641	8-1-1974	G. D. Societa Per Azioni Via Pomponia 10, Bologna, Italy.	High speed intermittent cycle machine for wrapping pieces of soap and other similar products.
14.	139676	22-4-1974	Combustion Engineering INC, 1000 Prospect Hill Road, Windsor Connecticut, U.S.A.	Means for adjusting the compression of spring blasting means.
15.	139681	11-4-1973	Societe Nationale Des Poudres Et Explosifs, 12, Quai Henri IV, Cedex 04, 75181, Paris, France.	Milling machine for the machining of parts of a large dimensions in particularly of the blocks of solid propellants.
16.	139682	11-4-1973	Do.	Process and device for machining of the internal duct of a block of solid propellant.
17.	139741	29-5-1974	Sofrets—Societe Francaise D'Etudes Thermiques Et D'Energie Solaire Sofretes Amilly Loiret, France.	A power generating system comprising an engine actuated by the expansion of a liquifiable gaseous fluid.
18.	139758	5-10-1974	F. L. Smith & Co. A/s, DK-2500, Copenhagen-Valby, 77 Vigerslev Alle, Denmark.	Tube mill.
19.	139799	19-7-1973	Establishment Salgad Vaduz, Liechtenstein.	Light mortar for fin-stabilised projectiles.
20.	139805	4-3-1974	Outokumpu OY Outokumpu, Finland.	An intra-uterine contraceptive device.
21.	139812	5-12-1973	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Improvements in transmission members and hydraulic actuators incorporating said transmission members.
22.	139860	4-4-1973	Westinghouse Electric Corporation, Pittsburgh Pennsylvania, U.S.A.	Improved system for turbine speed controlling valve operation.
23.	139874	14-8-1973	Burroughs Corporation, Burroughs Place, Detroit, Michigan 48232, U.S.A.	A predeterminedly configured roller for use in document reading and sorting apparatus using roller.
24.	139906	15-12-1973	The Warner & Swasey Co., University Circle Research Center, 11000, Cedar Avenue, Cleveland, Ohio, 44106, U.S.A.	A machine tool.
25.	139955	18-10-1973	BICC (British Insulated Calenders Cables), Ltd., 21, Bloomsbury Street, London WC 1B, 3 QN, England.	Wire drawing machinery.
26.	139969	19-12-1974	Paterson-Candy International Ltd., 21, The Mall Ealing, London W5, 2PW, England.	Weight operated control device.
27.	139982	29-10-1974	Hercules Incorporated, 910, Market Street, City of Wilmington, State of Delaware, U.S.A.	Thermal detonation energy initiable blast in caps and detonation system.

## RENEWAL FEES PAID

120483 120579 120627 120633 120784 120972 121030 121888  
 125707 125792 126125 126152 126153 126154 130440 130573  
 130630 130694 130781 134827 134828 134984 135075 135196  
 135197 135954 137066 137340 137544 137575 138676 138979  
 139238 139389 139446 139681 139682 140743 141101 141923  
 142097 142217 142225 142292 142622 143034 143673 144116  
 144162 144220 144542 144534 144624 144902 144962 145621  
 145642 145852 145853 146056 146071 146701 146319 146424  
 146444 146647 147050 147053 147121 147278 147395 148409  
 148836 148862 148867 149307 149346 149385 149540 149596  
 149685 149786 149812 149954 150079 150174 150239 150325  
 150381 150717 150798 150860 150986 151130 151249 151258  
 151264 151279 151281 151282 151289 151290 151295 151296  
 151306 151359 151361 151366 151378

## CESSATION OF PATENTS

116942 116947 116976 116982 116992 116994 117024 117038  
 117043 117054 117056 117070 117071 117072 117086 117088  
 117092 117096 117108 117109 117141 117160 117162 117165  
 117199 117210 117234 117252 147712

## CANCELLATION PROCEEDINGS (SECTION 51A)

## (1)

An application made by Engineering Udyog for cancellation of the Registration of Design No.(s). 152330 in the Class 3 in the name of Super Metal Pressing Works has been filed.

## (2)

An application made by New Hind Agricultural Industry for cancellation of the Registration of Design No.(s) 152924 in the Class 1 in the name of Madho Mechanical Works has been filed.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 154011. Brite Metal Products, Ground floor, Yeshoda Niwas, Ranade Road Ext., Shivaji Park, Bombay-400 028, Maharashtra, an Indian Partnership Firm. "Soap & Shampoo Tray". 31st January, 1984.

Class 1. No. 153897. Bikrom Stainless Products, Mungekar Industrial Estate, Goregaon (East), Bombay-400-062, Maharashtra, an Indian Sole Proprietary Firm. "Spoon". 22nd December, 1983.

Class. 1. No. 153525. XACA (INDIA) PRIVATE LIMITED (a private limited company incorporated under the Indian Companies Act), of Gopal Niwas, 178, K.M. Sharma Street, Post Box No. 2154, Bombay-400 002, Maharashtra State. "Electric Holder". 4th October, 1983.

Class. 1. No. 153595. Vinodrai Vanravandas Barchha, an Indian of Flat No. 9H, 9th Floor, "NEEL KAMAL" 41, Elgin Road, Calcutta-700 020, West Bengal, India. "Liquid Level Indicator". 25th October, 1983.

Class. 1. No. 153685. Larsen & Toubro Limited, of Powai Works, Saki-Vihar Road, P.O. Box 8901, Bombay-400 072, Maharashtra, India, an Indian Company. "Arc Detection Relay". 18th November, 1983.

Class 1. No. 153621. Tobi Enterprises Private Limited, 8/29 Kirti Nagar Industrial Area, New Delhi-110 015, India. An Indian Company. "Tricycle". 2nd November 1983.

Class. 1. No. 153896. Punjab Metals, 306, Lotus House, 33-A, New Marine Lines, Bombay-400 020, Maharashtra, an Indian Sole Proprietary Firm. "Glass/Tumbler". 22nd December, 1983.

Class. 1. No. 153446. Aggarwal Sales Corporation (a partnership-firm duly registered under the Indian Partnership Act of 1932), whose address is Maqbool pura, Amritsar-143 001 (Punjab). "The Tiffin-Carrier". 8th September, 1983.

Class. 1. No. 153925. Mahindra Industries, Rajinder Nagar, Industrial Area, P.O. Mohan Nagar, Ghaziabad Uttar Pradesh, India, a proprietorship concern, "Bracket". 29th December, 1983.

Class. 1. No. 15926. Kanwal Brush Factory, B-238, Naraina Industrial Area, Phase-I, New Delhi, Union Territory of India, India, a partnership concern. "Brush". 29th December, 1983.

Class. 3. No. 153974. Eagle Flask Private Limited, (an existing Company under the Companies Act) at Eagle Estate, Talegaon-410 507, State of Maharashtra, India. "Vacuum Flask". 18th January, 1984

Class. 3. No. 153970. Eagle Flask Private Limited (an existing Company under the Companies Act) at Eagle Estate, Talegaon-410 507, State of Maharashtra, India. "Vacuum Flask". 18th January, 1984.

Class. 3. No. 153684. Larsen & Toubro Limited, of Powai Works, Saki-Vihar Road, P.O. Box 8901, Bombay-400 072, Maharashtra, India, an Indian Company. "Arc Detection Relay". 18th November, 1983.

Class. 3. No. 153548. Silver Spark Private Limited, A Company incorporated under the Indian Companies Act C-66, Anand Niketan, New Delhi-110 021, India. An Indian Company. "Electronic gas lighter". 11th October, 1983.

Class. 3. No. 153673. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, an Indian Partnership Firm. "Memo Rack". 16th November, 1983.

Class 3. No. 153596. Vinodrai Vanravandas Barchha, an Indian of Flat No. 9H, 9th Floor, "NEEL KAMAL", 41, Elgin Road, Calcutta-700 020, West Bengal, India. "Liquid Level Indicator". 25th October, 1983.

Class. 3. No. 153834. The Parker Pen Company, a company organised and existing under the laws of the State of Delaware, United States of America of One Parker Place, Janesville, Wisconsin-53545, United States of America. "Ball Point Writing Instrument". Reciprocity date is 15th November, 1983. (U.K.).

Class. 3. No. 154009. Bharat Cottage Industries, 60-C-D, Government Industrial Estate, Charkop, Kandivali (West), Bombay-400 067, State of Maharashtra, an Indian Partnership Firm. "Picnic Basket". 31st January, 1984.

Class. 3. No. 153656. Bata India Limited, a Public Limited Company incorporated under the Indian Companies Act and having its Registered Office at No. 30 Shakespeare Sarani, in the town of Calcutta, West Bengal. "A sole for footwear". 15th November, 1983.

Class. 3. No. 153900. Fernhill Laboratories & Industrial Establishment, M.B. House, 4th Floor, 79, Ghoga Street, Fort, Bombay-400 001, Maharashtra, an Indian Partnership Firm. "Automiser Bottle Cap". 22nd December, 1983.

Class. 3. No. 154061. Plastelia (a registered partnership firm) of 91, Swami Vivekanand Road, Borivli (West), Bombay-400 092, State of Maharashtra, India. "A Comb". 21st February, 1984.

Class. 3. No. 153319. Grovers Private Limited, 223-231 Kaliandas Bldg., Prabhadevi, Near Century Bazar, Bombay-400 025, Maharashtra, India, a Company incorporated under the Companies Act. "Shuttle cock". 29th July, 1983.

Class. 4. No. 153887. C/o. Srinivasa Bottling Company, C-1, Industrial Estate, Eluru-534 006, Andhra Pradesh, India, all Indian Nationals "Bottles". 19th December, 1983.

Class. 10. No. 153655. Bata India Limited, a public limited Company incorporated under the Indian Companies Act and having its Registered Office at No. 30, Shakespeare Sarani, in the town of Calcutta, West Bengal. "a footwear". 15th November, 1983.

Class. 10. No. 153701. Prem Plastics, A-70, Naraina Industrial Area, Phase-I, New Delhi, (an Indian Partnership Firm). "Footwear". 24th November, 1983.

*Extn. of Copyright for the Third period of five years*

Nos. 141739, 141740. Class-3.

No. 141755. Class-4.

Nos. 141735, 141736, 141738. Class-10.

SHANTI KUMAR,  
Controller General of Patents,  
Designs and Trade Marks.

